Climatological Data for February, 1910.

DISTRICT No. 5, UPPER MISSISSIPPI VALLEY.

GEORGE M. CHAPPEL, District Editor.

TEMPERATURE.

For a winter month February was very pleasant over the upper Mississippi Valley, although it was somewhat colder than usual, especially during the second and third decades. The month opened with the day temperatures above the freezing point, except in North Dakota, and the night temperatures were moderate for the season in all sections. These conditions continued over the larger part of the district until the 8th or 9th and were then followed by alternating periods of low and moderate temperature; the coldest period being between the 15th and the 24th, when the minimum temperatures were considerably below zero in the northern sections and were below zero on one or more days in the southern sections, except in the extreme southern portion of Illinois.

In North Dakota the temperature was above the normal during the first 8 days. From the 9th to the 27th, inclusive, the temperature averaged decidedly below the normal. The period from the 15th to the 23d, inclusive, was without exception the coldest 9 consecutive days in the history of the climatological service of this State. With but 2 exceptions, the minimum temperature for the month was recorded during the latter period. Sixteen stations recorded minimum temperatures of −30° or below. The temperature on the 28th was considerably above the normal and the maximum for the month was generally recorded on that day.

In Minnesota there was a deficiency of temperature of 3° to 5° per day, the mean for the month being 6.2° lower than in February, 1909, and 5.2° warmer than the coldest February, that of 1904, when the mean was 2.3°. The mean temperature ranged from somewhat above 12° in the southern tier of counties to slightly below zero in Roseau and Kittson counties, in the extreme northwestern part of the State. The deficiency of temperature was general in all counties. An unusually cold period extended from the 15th to the 25th.

In Wisconsin the weather was cold but there were not many severe storms during the month. The mean temperature was about 1° below the normal. During the first half of the month the temperature was between zero and the freezing point most of the time, but during the latter half the weather was much colder and the minimum temperature was considerably below zero, except in the southern counties, on nearly every day. The lowest temperature for the month occurred between the 18th and the 25th, the lowest for the section being −42° at Long Lake, on the 18th. The mean ranged from 6° at Prentice to 20° at Beloit.

In Iowa the weather was exceptionally pleasant notwithstanding the fact that the average temperature was below the normal. The month opened with moderate temperature which continued until the 5th, and was then followed by alternating periods of cold and warm weather, with the coldest spell between the 22d and the 24th. The warmest day was generally on the 1st in the northern and on the 14th in the central and southern counties. There have been 8 colder Februaries during the past 20 years. In 1905 the average temperature was 5° lower than the average for the past month. The coldest February in the past 20 years was in 1899, when the mean temperature was 12.2°.

In Missouri there were alternating periods of freezing and thawing weather during the first half of the month, but during the latter half persistently low temperatures were the rule. There were 3 distinct cold periods; the first extended from the 10th to the 13th, the second was from the 16th to the 19th, and the third, from the 22d to the 25th. The temperatures were lower in the second period in the southern part of the section than they were in the northern counties, but during the last-named period the temperatures were lower in the northern part of the State. The temperature extremes for the month were 65° on the 15th and −14° on the 18th.

In Indiana the temperature was nearly normal and no notable conditions occurred until the 18th, when a cold wave, accompanied by zero temperatures passed over the section. Another cold spell, with temperatures below zero, was experienced on the 23d and 24th.

The temperature departure for stations in Illinois, within the Fifth District, was 1.0° below the normal. The highest monthly mean was 34.4° at Cairo; the lowest, 17.2°, at Dakota and Lanark, and the monthly mean was 25.0°. The temperature ranged from 68° on the 15th to −24° on the 18th.

The monthly mean temperature for the district, as shown by the records of 297 stations, was 14.9°, which is 1.7° below the normal. The highest monthly mean was 34.4°, at Cairo, Ill.; and the lowest monthly mean, −1.5° at Roseau, Minn. The highest temperature reported was 68° at Griggsville, Ill., on the 15th; and the lowest, −43° at Bagley and Pine River Dam, Minn., on the 18th. The greatest daily range was 57° at Park Rapids, Minn., and Osceola, Wis. The average of the greatest daily ranges was 38°.

PRECIPITATION.

There was a marked deficiency of precipitation over the larger part of the district and a corresponding excess of sunshine. Most of the precipitation occurred in the form of snow, except over the southern sections. Snow fell quite generally on the 20th and 22d, and rain fell at many stations in the central and southern sections on the 26th. The heaviest precipitation occurred in Illinois. The ground was covered with snow during the entire month north of central Iowa and northern Illinois, but was practically bare in southern districts, except from the 20th to the 24th.

The precipitation was unevenly distributed throughout the eastern portion of North Dakota but, taken as a whole, was about the normal. The average depth of snowfall was 4.2 inches. There was an average of 3 days with precipitation, 15 clear days, 6 partly cloudy and 7 cloudy days.

In Minnesota the precipitation ranged from one-tenth of an inch, or less in a number of southern counties, to over an inch in a wide belt extending across the center of the State from Bigstone, Traverse, and Chippewa counties to Lake Superior. The deficiency of precipitation was general, except within this belt. The heaviest storm of the month occurred on the 15th. The snowfall was unusually light, but a very unusual depth of old snow remained on the ground throughout the month.

In Wisconsin the precipitation was exceptionally light even for February, which is one of the driest months of the year. The average amount for the section was 0.72 inch, which is about 0.40 inch below the normal. The fall was especially light in the Black River Valley, where the total was from 0.19 to 0.50 of an inch. Practically all of the precipitation occurred on the 15th, 22d, 25th, and 26th, and nearly all of it was in the form of snow. The ground was well covered with snow at all times, and at the end of the month there was about 12 inches on the ground. Much of this snow has been on the ground during the past 3 or 4 months, and as a result the soil is not frozen to any great depth. There were 13 clear days during the month, which is an unusually large number for this season of the year.

There was a marked deficiency of precipitation in Iowa; the average for the State being only 0.46 inch, which is 0.60 inch

below the normal. At several stations it was the driest February in over 30 years. There were no severe storms, and the 20th and 22d were the only days on which the precipitation was general. The ground was practically bare from snow over the southern counties, except from the 20th to the 24th; but over the northern counties there was snow on the ground during the entire month.

In Missouri there was less precipitation than usual; the average deficiency for the district being nearly an inch. The soil, however, is reported to be well saturated. The snowfall was exceptionally light, but covered the ground to an appreciable depth from the 16th to the 22d. The wet and most unpleasant periods were from the 2-3d, 8-12th, 16-17th, and 20th-22d.

Light rain fell over most of that portion of Indiana, within the Fifth District, on the 2d and 3d, and heavy rain on the 26th and 27th; the amount during the latter storm was considerably more than one-half the total precipitation for the month. The precipitation during the interval between the two storms mentioned fell mostly in the form of snow, the heaviest amount being recorded on the 16th and 17th. The closing days of the month were comparatively warm, rainy, and foggy. The heavy rain during this time caused a considerable rise in the streams, but not such as to produce any material damage.

The average precipitation in Illinois was 1.62 inch, which is 0.64 inch below the normal. The average snowfall was 6.7 inches. The precipitation was notably deficient in the central and northern counties of the district, and mostly excessive in the southern counties. The coverings of ice and snow in the northern counties during December and January lasted through the greater portion of February.

The average precipitation for the district, as shown by the records of 311 stations, was 0.75 inch, or 0.52 inch below the normal. The greatest amount, 5.71 inches, occurred at Mount Vernon, Ill., and none occurred at Grafton and Pratt, N. Dak. The greatest amount in 24 hours, 3.00 inches, occurred at Mount Vernon, Ill., on the 17th. The average depth of unmelted snowfall was 5.4 inches; the greatest depth was 22.0 inches, at Hillsboro, Ill., and none occurred at Grafton and Pratt, N. Dak. Measurable precipitation occurred on an average of 4 days. The average number of clear days was 13; partly cloudy, 7; and cloudy, 8. The duration of sunshine was above the normal. Northwest winds prevailed.

MISCELLANEOUS.

All rivers, except in the extreme southern part of the district, were frozen over during the entire month. In Wisconsin the ice averaged about 20 inches in thickness; in Iowa, from 10 to 22 inches; and in northern Illinois, about 15 inches. The Mississippi River was open below the mouth of the Missouri River. Most of the rivers in the district were at about the average winter stage.

TABLE 1.—*Climatological data for February, 1910. District No. 5, Upper Mississippi Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
North Dakota.																				
Amenia	Cass	954	12	3.7	− 3.5	43	1	−26	19	50	0.40	+ 0.06	0.40	4.0	1	12	11	5	nw.	C. E. Wood.
Bottineau	Bottineau	1,638	14	−0.6	− 1.1	35	28	−33	23	39	0.13	− 0.27	0.05	.....	4	13	6	9	nw.	J. A. Kemp.
Cando	Towner	1,488	8	1.0	.....	39	28	−33	23	49	0.36	+ 0.27	0.26	4.0	2	19	5	4	w.	E. T. Judd.
Crosby	Williams	.....	3	2.8	.....	38	28	−29	18†	33	0.64	.....	0.25	5.5	4	12	9	7	nw.	H. C. Kaschau.
Devils Lake	Ramsey	1,482	4	2.8	− 1.7	38	28	−28	18	37	0.27	− 0.26	0.10	3.6	7	13	5	10	w.	U. S. Weather Bureau.
Donnybrook	Ward	1,760	10	6.0	− 0.6	40	28	−26	2†	43	0.30	− 0.12	0.10	3.0	4	16	0	12	nw.	C. J. De Vore.
Dunseith	Rolette	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. H. Trowbridge.
Edmore	Ramsey	1,524	4	3.2	.....	50	7	−31	18	43	0.45	.....	0.20	4.5	3	20	5	3	w.	H. R. Aslakson.
Forman	Sargent	1,249	15	5.8	− 3.0	38	28	−32	19	43	0.90	+ 0.46	0.50	9.0	4	9	11	8	nw.	A. Maltby.
Grafton	Walsh	827	12	5.6	+ 0.2	33	28	−27	23	37	0.00	− 0.52	0.00	0.0	0	9	14	5	n.	H. La Moure.
Granville	McHenry	1,504	3	3.2	.....	41	28	−30	18	39	0.18	.....	0.08	4.0	3	.....	.....	.....	nw.	W. A. Christiansen.
Hannah	Cavalier	1,568	4	2.3	.....	38	28	−30	18	46	0.30	.....	0.20	3.0	2	17	4	7	nw.	J. Moffatt.
Hansboro	Towner	.....	2	2.8	.....	36	28	−29	22†	36	0.21	.....	0.13	1.8	4	14	4	10	nw.	Geo. Dale.
Hillsboro	Traill	901	4	6.6	.....	36	28	−22	19†	37	0.27	.....	0.10	2.7	7	14	9	5	n.	M. H. Norman.
Lakota	Nelson	1,519	3	1.4[c]	.....	34[c]	28	−26[c]	18†	40	0.90	.....	0.25	6.0	8	9	14	2	nw.	C. R. Pettes.
Langdon	Cavalier	1,615	14	−0.4	.....	31	27	−30	18	38	0.11	.....	0.06	.....	3	16	0	12	nw.	J. Woolner.
Larimore	Grand Forks	1,134	14	4.6	− 0.4	36	28	−26	23	37	0.60	+ 0.26	0.20	6.0	4	13	10	5	w.	S. R. Britton.
Lisbon	Ransom	1,091	5	2.0	.....	39	28	−34	18	42	0.80	.....	0.50	8.0	2	20	2	6	nw.	H. K. Adams.
McKinney	Ward	1,640	15	2.6	− 1.3	40	28	−32	23	46	0.20	− 0.10	0.20	2.0	2	8	16	4	nw.	N. P. Swenson.
Manfred	Wells	1,605	8	4.9	.....	40	28	−31	18	36	0.45	.....	0.20	4.5	4	11	8	9	nw.	P. B. Anderson.
Mayville	Traill	975	14	7.0	− 0.4	36	1	−24	22	31	0.72	+ 0.29	0.40	7.2	4	18	5	5	nw.	M. N. Pope
Minot	Ward	1,557	11	6.4	+ 0.0	42	7	−27	19	45	0.53	+ 0.11	0.40	5.3	4	20	2	6	w.	J. J. Bates.
Minto	Walsh	820	16	5.7	+ 0.7	39	14	−23	23	40	0.33	− 0.16	0.15	.....	6	8	12	8	n.	S. S. Marsh.
Oriska	Barnes	1,270	4	2.4[d]	.....	37[d]	28	−24	18	30	0.44	.....	0.40	4.4	3	.....	.....	.....	.....	W. E. Williams.
Park River	Walsh	998	6	5.8	.....	36	28	−25	23	34	0.13	.....	0.05	.....	3	12	11	5	nw.	A. Heyward.
Pembina	Pembina	789	11	0.8	+ 1.7	33	28	−30	22	34	0.30	− 0.09	0.20	3.0	2	13	9	6	w.	C. W. Shumaker.
Portal	Ward	1,954	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. S. Davis.
Power	Richland	1,020	17	3.4	− 4.8	35	1†	−31	10†	46	0.65	+ 0.10	0.50	6.5	3	14	9	5	se.	J. A. Power.
Pratt	McHenry	.....	5	1.4	.....	37	28	−32	22	40	0.00	.....	0.00	0.0	0	22	1	5	nw.	C. H. Butts.
University	Grand Forks	830	18	4.6	− 2.5	37	28	−25	23	40	0.13	− 0.30	0.10	1.3	3	17	0	11	n.	W. R. Holgate.
Wahpeton	Richland	962	18	2.5	− 8.5	36	1†	−36	18	38	1.50	+ 0.98	1.50	15.0	1	16	3	9	nw.	E. G. Burch.
Walhalla	Pembina	966	5	2.8	.....	42	6	−25	21	41	T.	.....	T.	T.	0	22	3	3	nw.	C. H. Lee.
Westhope	Bottineau	.....	3	1.4	.....	37	28	−33	23	41	0.02	.....	0.02	.....	1	17	3	8	nw.	J. D. Currie.
Willow City	....do	1,471	16	0.0	− 2.9	38	28	−36[b]	16	43[b]	T.	− 0.40	T.	T.	0	11	6	11	nw.	M. A. Ostby.
Minnesota.																				
Albert Lea	Freeborn	1,229	20	11.5	− 3.8	38	1	−17	23	32	0.07	− 0.80	0.07	1.0	1	8	15	5	nw.	Edward Carey.
Alexandria	Douglas	1,391	16	7.5	− 1.9	37	6†	−30	18†	41	0.90	+ 0.34	0.70	10.7	6	13	4	11	nw.	P. O. Unumb.
Angus	Polk	870	8	2.2	.....	36	28	−32	23	44	0.12	.....	0.10	1.2	2	17	0	11	n.	John Nadvornik.
Bagley	Clearwater	.....	4	0.0	.....	38	28	−43	18	48	0.48	.....	0.29	5.0	3	15	10	3	nw.	Jens Nelson.
Baudette	Beltrami	1,084	1	1.4	.....	44	28	−33	18	46	0.35	.....	0.15	4.2	5	20	3	5	nw.	Franz W. Schmidt.
Beardsley	Bigstone	1,090	17	9.8[a]	− 2.8	40[a]	28	−24[a]	19†	31[a]	0.65[a]	0.00	0.65[a]	6.0[a]	1[a]	9[a]	12[a]	6[a]	nw.	Roy A. Smith.
Beaulieu	Mahnomen	1,200	8	3.4	.....	34	1	−28	23	38	0.15	.....	0.15	1.0	1	14	4	10	nw.	Dr. L. A. Parkinson.
Bird Island	Renville	1,039	20	10.4	− 2.3	42	1	−21	19	30	0.45	− 0.15	0.26	4.5	4	11	5	12	nw.	Dr. F. L. Puffer.
Caledonia	Houston	1,179	17	12.7[a]	− 2.4	40[a]	1	−15[a]	23	39[a]	0.10[a]	− 0.89	0.10[a]	1.0[a]	1[a]	10[a]	6[a]	11[a]	nw.	W. D. Belden.
Campbell	Wilkin	984	....	2.0	.....	38	4	−35	18	52	1.45	.....	0.60	14.5	6	9	4	15	nw.	J. T. Neiseess.
Cass Lake	Cass	1,300	4	.....	.....	.....	.....	.....	.....	.....	0.70	.....	0.25	10.0	4	.....	.....	.....	.....	C. W. Burns.
Collegeville	Stearns	1,282	17	10.9	− 4.0	39	1	−22	23	31	0.34	− 0.24	0.17	3.5	3	17	8	3	nw.	Fridolin Tembreul.
Crookston	Polk	863	20	2.6	− 3.2	37	28	−24	18†	43	0.45	− 0.31	0.11	4.5	6	18	2	8	n.	A. G. Andersen.
Detroit	Becker	1,364	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George W. Peoples.
Fairmont (near)	Martin	1,240	23	12.1	− 2.2	38	1	−14	17†	30	0.13	− 1.02	0.08	0.8	2	12	14	2	nw.	W. F. Wherland.
Faribault	Rice	1,003	13	10.1	− 5.4	41	1	−20	19	31	0.06	− 0.63	0.02	1.6	4	14	9	5	nw.	Dr. A. R. T. Wylie.
Farmington	Dakota	902	22	10.6	− 2.9	41	1	−22	23	31	0.15	− 0.94	0.10	1.0	2	14	5	9	nw.	D. F. Akin.
Fergus Falls	Ottertail	1,210	18	6.6	− 4.0	37	28	−30	18	34	0.85	+ 0.27	0.64	8.5	12	13	11	4	nw.	Chas. E. Kissenger.
Fort Ripley	Crow Wing	1,136	4	4.0	.....	32	2†	−40	18†	46	1.40	+ 0.70	1.00	15.0	4	19	0	9	s.	J. J. Tucker.
Fosston	Polk	1,289	1	2.2	.....	35	28	−29	23	41	0.22	.....	0.08	4.0	3	13	9	6	s.	O. N. Hem.
Glencoe	McLeod	1,000	14	11.1	− 4.3	43	1	−27	19	36	0.27	− 0.40	0.20	2.7	3	16	12	0	nw.	C. G. Selvig.
Grand Meadow	Mower	1,338	23	12.0	− 1.4	38	1	−20	23	33	0.17	− 0.92	0.12	1.7	2	16	8	4	nw.	C. F. Greening.
Hallock	Kittson	815	11	−0.8	− 3.0	35	28	−34	23	36	0.37	− 0.10	0.10	3.7	5	19	1	8	s.	D. A. Robertson.
Halstad	Norman	870	4	2.9	.....	37	28	−26	23	47	0.23	.....	0.15	8.0	2	19	6	3	s.	Aaron G. Holstrom.
Hinckley	Pine	1,050	5	8.7	.....	37	28	−31	19	37	0.60	.....	0.50	6.0	2	10	13	5	n.	W. R. Newman.
International Falls	Koochiching	1,112	2	2.2	.....	38	28	−28	23	37	0.60	.....	0.20	6.0	4	15	7	6	w.	Rees Roe.
Kelliher	Beltrami	.....	3	.....	.....	38[i]	28	−32[b]	18	43[i]	.....	.....	.....	.....	.....	7[b]	11[b]	2[b]	nw.	A. Gilmour.
Lake Crystal	Blue Earth	.....	3	11.0	.....	39	1	−21	18	34	0.14	.....	0.11	1.5	2	16	6	6	s.	W. P. Cobb.
Leech Lake Dam	Cass	1,301	22	4.2	− 2.6	38	28	−31	18†	47	0.56	− 0.12	0.30	6.2	4	3	19	6	nw.	Hans Olson.
Little Falls	Morrison	1,117	4	7.6	.....	36	28	−30	18	33	0.85	.....	0.70	8.5	3	15	11	2	nw.	Maurice Coleman.
Little Fork	Koochiching	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	O. C. Olson.
Long Prairie	Todd	1,299	18	5.2	− 4.6	38	28	−40	18	45	1.04	+ 0.54	1.02	10.2	3	13	11	4	nw.	R. M. Sheets.
Lynd (2)	Lyon	1,175	18	11.5	− 3.2	41	1	−22	10	35	0.24	− 0.24	0.09	3.0	3	16	7	5	nw.	J. W. Rouse.
Mankato	Blue Earth	747	11	.....	.....	.....	.....	.....	.....	.....	0.06	− 0.79	0.06	T.	1	15	3	10	sw.	Sadie H. Blake.
Mapleplain	Hennepin	1,023	18	9.8	− 2.2	44	1	−24	19	37	0.74	− 0.35	0.40	7.7	8	11	11	6	nw.	G. W. Richards.
Milaca	Millelacs	1,072	13	7.6	− 3.4	37	28	−36	18	38	0.36	− 0.65	0.20	7.0	2	15	9	4	nw.	C. H. Foss.
Milan	Chippewa	955	16	8.7	− 3.4	39	1	−22	19	34	1.12	+ 0.21	0.50	11.2	7	8	18	2	nw.	O. K. Opjorden.
Minneapolis	Hennepin	918	19	11.6	− 3.4	45	1	−18	23	27	0.51	− 0.22	0.46	6.1	6	14	7	7	nw.	U. S. Weather Bureau.
Montevideo	Chippewa	900	20	8.6	− 4.4	45	1	−19	23	40	0.37	− 0.37	0.12	7.7	6	9	6	13	nw.	Lloyd G. Moyer.
Moorhead	Clay	935	29	4.7	− 2.3	38	28	−29	18	37	0.52	− 0.21	0.34	6.2	7	16	9	3	nw.	U. S. Weather Bureau.
Mora	Kanabec	.....	5	8.2	.....	38	1†	−41	18	46	0.93	.....	0.80	9.5	3	22	2	4	w.	Hans Peterson.
Morris	Stevens	1,170	25	7.3	− 3.1	36	28	−23	23	31	0.30	− 0.25	0.10	3.0	4	23	2	3	nw.	D. T. Wheaton.
New London	Kandiyohi	1,215	16	6.8	− 4.4	45	1	−30	19	38	1.04	+ 0.57	0.62	10.2	5	7	17	4	nw.	Harold Swenson.
New Richland	Waseca	1,180	16	12.0	− 3.9	40	1	−18	23	31	0.12	.....	0.08	0.9	3	13	12	3	nw.	N. O. Tyrholm.
New Ulm	Brown	791	30	10.0	− 5.7	43	1	−19	23	36	0.21	− 0.74	0.08	2.0	4	5	0	23	nw.	Andrew J. Eckstein.
Osakis	Douglas	1,343	3	6.2	.....	35	28	−30	18†	32	0.70	.....	0.53	7.0	4	12	9	7	nw.	J. B. Johnson.
Park Rapids	Hubbard	1,426	20	2.0	− 3.8	37	28	−39	18†	57	0.47	− 0.17	0.26	4.7	5	19	3	6	nw.	Dr. P. A. Walling.
Pine River Dam	Crow Wing	1,251	23	4.0	− 3.1	40	28	−43	18	45	0.50	− 0.20	0.40	12.0	2	21	5	2	nw.	Neil McKay.
Pokegama Falls	Itasca	1,280	23	3.5	− 2.2	38	28	−42	18	50	0.61	− 0.12	0.32	6.3	4	11	13	4	nw.	Arthur L. Mampel.
Red Lake	Beltrami	1,152	2	2.9	.....	36	28	−29	10†	45	0.44	.....	0.20	5.2	4	13	11	4	sw.	A. C. Goddard.
Red Wing	Goodhue	680	14	.....	.....	.....	.....	.....	.....	.....	0.14	− 1.01	0.06	1.9	5	14	2	12	nw.	Louis Bach.
Redwood Falls	Redwood	1,050	3	13.1	.....	47	1	−19	23	35	0.65	− 0.27	0.25	6.5	5	15	10	3	nw.	N. B. Anderson.
Reeds Landing	Wabasha	681	15	.....	.....	.....	.....	.....	.....	.....	0.09	− 0.58	0.04	2.0	3	11	5	12	nw.	John Deschneau.
Rochester	Olmsted	991	6	9.2	.....	41	1	−22	17	47	0.05	.....	0.05	0.8	1	12	3	13	sw.	S. R. Case.
Roseau	Roseau	1,040	3	−1.5	.....	41	28	−39	18	52	0.40	.....	0.15	2.8	3	23	5	0	nw.	A. Waag.
St. Charles	Winona	850	19	9.0	− 6.2	40	1	−20	19†	40	0.25	− 0.81	0.11	2.3	4	11	9	8	se.	S. W. Gleason.
St. Cloud	Sherburne	1,020	32	9.6	− 2.9	37	28	−26	19	32	0.46	− 0.17	0.28	4.5	2	13	11	4	nw.	Jos. H. Capser.
St. Paul	Ramsey	837	39	11.0	− 4.0	46	1	−20	23	28	0.42	− 0.42	0.36	4.5	5	9	14	5	nw.	U. S. Weather Bureau.
St. Peter	Nicollet	825	17	14.0	− 1.8	45	1	−21	19	37	T.	− 0.59	T.	T.	0	22	3	3	nw.	Chas. C. Cavanaugh.
Sandy Lake Dam	Aitkin	1,234	17	5.2	− 3.3	33	7	−40	18	55	1.46	+ 0.78	0.96	17.8	7	6	9	13	nw.	U. S. Engineer Corps.
State Sanatorium	Cass	.....	3	5.1	.....	37	28	−31	23	44	0.74	.....	0.52	6.2	4	19	3	6	nw.	Walter J. Marcley.
Stillwater	Washington	694	5	.....	.....	.....	.....	.....	.....	.....	0.47	.....	0.29	6.4	5	14	9	5	nw.	Oscar Ostrom.

TABLE 1.—*Climatological data for February, 1910. District No. 5*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Minnesota—Cont'd.																				
Taylors Falls	Chisago	759	3	9.4	.....	44	1	−31	18†	41	0.61	.....	0.41	6.5	2	19	5	4	n.	Mpls. Gen. Elec. Co.
Warroad	Roseau	1,069	1	−0.2	.....	47	28	−35	17	47	0.38	.....	0.10	3.8	5	21	2	5	w.	John H. Sawyer.
West Concord	Dodge	1,232	1	10.3	.....	38	1	−20	17†	35	T.	.....	T.	T.	0	8	16	4	nw.	H. H. Orcutt.
Willow River	Pine	1,046	12	7.2	.....	37	28	−39	18	41	0.51	− 0.30	0.21	6.0	7	16	5	7	n.	J. A. Brandt.
Windom	Cottonwood	1,336	4	13.4	.....	43	1	−20	18	38	0.15	.....	0.15	1.0	1	11	14	3	nw.	Taber C. Richmond.
Winnebago	Faribault	1,100	11	.....	.....	.....	.....	−16	10†	....	0.15	− 0.76	0.08	2.0	3	13	9	6	nw.	H. H. Haight.
Winnibigoshish	Itasca	1,300	22	5.4	− 1.7	39	28	−32	18†	46	0.57	− 0.09	0.25	6.8	5	20	5	3	nw.	John Duncan.
Winona	Winona	700	15	15.3	− 0.6	43	1	−15	23	32	0.14	− 0.78	0.06	1.2	4	14	5	9	nw.	Perry C. Myers.
Worthington	Nobles	979	15	9.8	− 5.4	40	1	−18	16	34	T.	− 0.71	T.	T.	0	20	5	3	n.	W. I. Carpenter
Zumbrota	Goodhue	917	15	11.6	− 3.8	43	1	−21	19	36	T.	.....	T.	T.	0	16	8	4	nw.	W. C. Rowell.
South Dakota.																				
Milbank	Grant	1,148	18	10.0	− 2.5	41	28	−20	23	41	0.65	− 0.17	0.48	4.5	3	12	2	14	nw.	I. T. Patridge.
Wisconsin.																				
Antigo	Langlade	1,489	16	13.6	+ 0.9	36	28	−23	23	36	0.90	.....	0.30	9.0	5	18	0	10	w.	Elton C. Larzelere.
Barron	Barron	1,115	18	9.0	− 1.6	38	1	−36	18	42	0.55	− 0.50	0.45	5.0	2	22	2	4	sw.	Wm. A. Kent.
Beloit	Rock	750	23	19.7	+ 1.1	44	14	− 9	18	40	0.53	− 1.23	0.32	T.	3	16	4	8	nw.	Smith Observatory.
Brodhead	Green	812	12	17.4	+ 0.1	42	15	−16	25	43	0.85	− 0.73	0.45	5.5	3	16	9	3	nw.	Hecktore D. Kirkpatrick.
Burnett	Dodge	880	6	13.6	.....	38	28	−19	23	40	0.61	.....	0.32	6.6	6	11	5	12	nw.	Geo. W. Smith.
Delavan	Walworth	920	17	17.7	− 2.3	42	15	−13	23	37	0.41	− 0.92	0.20	5.5	6	9	9	10	sw.	Elwood S. Austin.
Dodgeville	Iowa	1,116	11	17.1	− 0.5	36	14	−15	23	39	1.13	+ 0.04	0.38	11.8	6	13	0	15	nw.	Geo. W. Butler
Downing	Dunn	983	8	10.3	.....	45	1	−34	19	42	0.40	.....	0.40	4.0	1	6[a]	4[a]	17[a]	w.	Eugene F. Stoddard.
Eau Claire	Eau Claire	800	19	13.7	+ 0.2	43	1	−22	19	40	0.32	− 0.95	0.24	3.2	3	15	8	5	nw.	Robert D. Whitford
Ellsworth	Pierce	1,068	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Henry G. Wood.
Glidden	Ashland	1,519	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George Sell.
Grand Rapids	Wood	1,021	11	12.6	− 0.7	40	1	−23	23	41	0.95	+ 0.46	0.70	8.0	3	9	10	9	sw.	Willis B. Raymond.
Grantsburg	Burnett	1,095	19	7.9	− 3.2	42	1	−36	18†	44	1.10	+ 0.10	0.80	11.0	2	18	5	5	sw.	Theodore Olsen.
Hancock	Waushara	1,091	18	13.0	− 2.6	39	26	−19	23	39	0.90	− 0.23	0.40	8.0	4	14	5	9	w.	Frederick B. Hamilton.
Hatfield	Jackson	973	15	12.6	− 1.4	48	1	−26	18	44	0.45	− 0.13	0.30	4.1	4	9	7	12	sw.	Walter S. Woods.
Hayward	Sawyer	1,197	19	7.6[a]	− 2.4	38[a]	28	−38[b]	18†	51[b]	0.90	− 0.03	0.35	9.0	5	18[a]	3[a]	6[a]	nw.	William E. Swain.
Hillsboro	Vernon	1,000	19	12.2	− 2.8	40	26	−27	24	48	1.10	− 0.22	0.60	11.0	3	18	7	3	w.	Emil V. Wernick.
Koepenick	Langlade	1,683	20	10.0	− 3.6	36	28†	−30	18†	50	1.00	− 0.15	0.50	10.0	4	.....	.....	.....	nw.	Edward S. Koepenick.
La Crosse	La Crosse	714	38	15.1	− 3.3	42	1	−14	23	30	0.51	− 0.55	0.24	4.0	7	8	10	10	s.	U. S. Weather Bureau.
Lake Mills	Jefferson	897	19	16.2	− 2.1	41	14†	−14	23	35	0.91	− 0.32	0.40	7.9	7	9	10	9	nw.	S. Newton Dexter Smith.
Lancaster	Grant	1,070	20	15.9[a]	+ 0.6	43[a]	14	−15[a]	23	33[a]	0.52	− 0.63	0.23	6.0	5	12	11	5	nw.	Edward Pollock.
Long Lake	Oneida	1,592	2	8.0	.....	38	28	−42	18	51	1.13	.....	0.59	12.6	11	12	6	10	w.	Louie Frank.
Madison	Dane	974	32	15.5	− 4.1	38	26	−14	23	35	0.74	− 0.73	0.28	6.4	6	6	13	9	nw.	U. S. Weather Bureau.
Mather	Juneau	962	6	10.4	.....	45	1	−23	18	54	1.02	.....	0.40	10.0	5	8	10	10	w.	Frank Evans.
Mauston	....do	882	14	14.8	+ 0.7	40	1	−18	23†	41	0.50	− 0.54	0.30	6.0	3	17	6	5	nw.	Eugene L. Hitchcock.
Meadow Valley	....do	974	19	12.8	− 0.8	40	1	−21	19	38	0.50	− 0.25	0.30	5.0	3	6	17	5	nw.	Charles H. Johnson.
Medford	Taylor	1,420	19	11.5	− 1.4	38	1	−27	19	39	0.20	− 0.83	0.20	2.0	1	17	5	6	w.	William Zeit.
Merrill	Lincoln	1,267	4	13.8	.....	45	1	−33	18	48	0.43	.....	0.20	7.2	6	20	4	4	n.	Frank M. McElroy.
Minocqua	Vilas	1,604	6	9.8	.....	46	1	−36	18	49	0.65	.....	0.55	6.5	2	13	3	12	w.	Benjamin W. Applebee.
Mondovi	Buffalo	738	2	13.2	.....	46	1	−26	19	41	0.15	.....	0.05	2.0	3	19	4	5	nw.	Dr. Charles Hebard.
Mount Horeb	Dane	1,226	6	14.9	.....	37	26†	−16	23†	32	1.01	.....	0.30	8.0	6	12	8	8	nw.	W. M. Lewis.
Muscoda	Grant	666	1	16.0	.....	43	1	−17	24	41	1.34	.....	0.46	7.3	7	11	10	6	.....	Henry Eckstein.
Neillsville	Clark	996	21	11.8	− 1.3	40	1	−30	18	45	0.50	− 0.67	0.40	2.0	2	12	1	15	nw.	William Heaslett.
New Richmond	St. Croix	990	5	11.1	.....	48	2	−28	19	40	0.73	.....	0.73	8.0	1	22	2	4	nw.	Franc A. R. Van Meter.
Osceola	Polk	806	19	6.7	− 3.8	42	1	−35	23†	57	0.63	− 0.15	0.30	14.0	4	16	6	6	w.	Charles W. Staples.
Portage	Columbia	809	14	14.6	− 2.2	40	26	−25	24	38	0.66	− 0.36	0.34	9.0	4	16	7	5	nw.	James Clear.
Prairie du Chien	Crawford	690	23	14.2	− 5.0	43	1	−12	23†	48	0.81	− 0.43	0.45	8.5	6	9	9	10	nw.	Jas. A. Gillis.
Prentice	Price	1,551	12	6.2	− 4.0	32	28†	−40	17	50	0.77	− 0.09	0.46	7.2	4	8	4	16	w.	Joseph G. Lash.
Rhinelander	Oneida	1,550	4	11.4	.....	40	1	−27	23	42	0.54	.....	0.26	9.3	7	17	3	8	nw.	John Lind.
Sauk City	Sauk	758	2	16.2	.....	42	1	−22	24	40	0.80	.....	0.50	9.5	3	13	7	8	w.	Kilien Derleth.
Shullsburg	Lafayette	1,019	4	15.3	.....	41	15	−14	23	35	0.56	.....	0.26	5.4	4	15	3	10	w.	Harrison B. Chamberlin.
Solon Springs	Douglas	1,083	4	6.8	.....	38	28	−41	18	49	0.79	.....	0.70	8.0	3	14	4	10	s.	John M. Sayles.
Spooner	Washburn	1,104	15	9.8	− 0.8	38	1†	−26	23	32	0.75	− 0.25	0.50	7.5	5	21	3	4	w.	Horace A. Bresee.
Stanley	Chippewa	1,082	6	11.2	.....	42	1	−29	19	46	0.19	.....	0.06	1.8	4	15	7	6	nw.	W. Humphrey Scott.
Stevens Point	Portage	1,113	17	12.4[a]	− 1.0	40[a]	26	−26[a]	19	42[a]	1.11	+ 0.45	0.50	10.0	5	10[a]	5[a]	12[a]	nw.	Garry E. Culver.
Valley Junction	Monroe	930	18	13.1	− 1.4	42	1†	−24	18	44	0.55	− 0.28	0.20	5.5	5	16	4	8	nw.	Frederick Muermann.
Viroqua	Vernon	1,412	19	15.2	− 1.0	39	2	−17	23	29	0.68	− 0.59	0.45	7.5	4	14	7	7	nw.	Henry E. Rogers.
Vudesare	Vilas	1,600	2	7.7	.....	39	28	−36	18	47	1.90	.....	0.74	21.0	8	15	6	7	w.	Louis L. Thomas.
Watertown	Jefferson	824	19	15.0	− 2.2	37	26	−16	24	42	0.89	− 0.59	0.50	7.2	7	8	12	8	nw.	Charles J. Salick.
Waukesha	Waukesha	864	14	17.8	+ 0.1	40	15	−14	23	30	0.75	− 0.28	0.30	6.0	6	6	19	3	nw.	Carroll College.
Wausau	Marathon	1,212	17	14.2	+ 0.1	37	14†	−23	19	47	0.50	− 0.73	0.20	6.0	4	14	10	4	sw.	George H. Halder.
Weyerhaeuser	Rusk	1,297	3	9.7	.....	43	1	−36	18	43	0.78	.....	0.70	8.7	3	12	11	5	nw.	Miss Etta Stiles.
Whitehall	Trempealeau	675	18	14.5	+ 1.4	42	1†	−23	18	40	0.23	− 0.76	0.08	2.5	4	17	4	7	nw.	Henry A. Towner.
Iowa.																				
Albia§	Monroe	959	12	20.4	+ 0.1	52	1†	−10	23	41	0.48	− 0.84	0.23	2.0	3	13	8	7	nw.	J. I. Chenoweth.
Algona§	Kossuth	1,213	36	14.6[a]	− 2.4	40[a]	1	−15[a]	23	28[a]	0.17	− 1.10	0.13	.....	3	.....	.....	.....	.....	Dr. F. T. Seeley.
Alta	Buena Vista	1,513	19	12.8	− 4.8	43	1	−15	23	41	0.19	− 0.66	0.13	2.0	2	11	14	3	nw.	David E. Hadden.
Amana	Iowa	721	34	19.4	− 0.7	44	15	− 9	23	31	0.25	− 1.01	0.12	1.3	4	11	11	6	nw.	C. Schadt.
Ames	Story	926	34	16.1	− 5.1	43	2	−10	23†	39	0.35	− 0.45	0.20	3.5	2	15	4	9	n.	Iowa State College.
Baxter§	Jasper	998	10	19.4	+ 1.3	48	1†	−11	23	44	0.19	− 0.62	0.10	1.8	4	12	9	7	nw.	W. R. Vandike.
Belleplaine	Benton	828	20	19.9	0.0	45	14	−10	23	36	0.80	− 0.66	0.35	6.0	3	14	7	7	nw.	S. P. Van Dike.
Belmond	Wright	.....	.....	12.8	.....	47	1	−18	17	31	0.22	.....	0.18	1.7	2	5	17	6	nw.	Geo. P. Hardwick.
Bloomfield§	Davis	.....	3	24.4[c]	.....	57[d]	14	−12[b]	23	39[d]	0.94	.....	0.54	4.0	3	.....	.....	.....	sw.	C. R. Davis.
Bonaparte§	Van Buren	.....	19	23.1	+ 0.3	56	15	−12	23	33	0.74	− 0.49	0.37	3.0	3	.....	.....	.....	.....	B. R. Vale.
Boone	Boone	1,134	5	15.4	.....	48	1	−11	23	38	0.39	.....	0.18	2.0	5	19	2	7	.....	Carl Fritz Henning.
Britt§	Hancock	1,236	13	12.0	− 4.5	38	1	−17	10†	34	0.10	− 0.93	0.05	1.0	3	13	10	5	nw.	L. M. Goodman.
Buckingham	Tama	.....	10	.....	.....	.....	.....	.....	.....	.....	0.27	− 0.73	0.13	.....	4	10	13	5	.....	W. A. Daniel.
Burlington	Des Miones	544	14	22.6	− 1.1	56	15	−10	23	43	2.09	+ 0.31	0.60	6.4	7	12	7	9	sw.	Max E. Poppe, jr.
Carroll	Carroll	1,265	20	18.3	− 0.6	52	28	−13	22	42	0.20	− 0.95	0.10	2.0	2	10	6	12	nw.	Mrs. Jos. J. Wolfe.
Cedar Rapids	Linn	733	28	17.3	− 2.8	48	15	− 9	23	42	0.38	− 1.00	0.17	1.2	3	17	4	7	w.	W. J. Greene.
Charles City	Floyd	1,015	19	11.0	− 4.1	37	1	−17	10	31	0.61	− 0.36	0.27	7.7	6	8	9	11	nw.	U. S. Weather Bureau.
Clear Lake§	Cerro Gordo	1,241	12	14.0	− 0.6	40	1†	−19	10	47	0.10	− 0.75	0.10	1.0	1	17	1	10	nw.	Oscar Stevens
Clinton	Clinton	593	43	20.3	− 1.5	47	15	− 9	23	43	0.67	− 1.42	0.42	1.0	3	.....	.....	.....	.....	Luke Roberts.
Columbus Junction§	Louisa	595	9	22.8	.....	53	15	− 8	23	34	0.67	− 0.51	0.36	3.5	3	16	6	6	w.	J. B. Johnston.
Davenport	Scott	580	39	21.0	− 2.8	52	15	− 8	23	32	0.59	− 0.97	0.30	3.5	6	12	8	8	nw.	U. S. Weather Bureau.
Decorah	Winneshiek	875	17	14.0	− 1.3	42	1	−14	18†	39	0.91	0.00	0.65	8.0	3	.....	.....	.....	.....	F. H. Baker.
Delaware	Delaware	1,083	19	15.5	− 0.8	41	15	−14	10†	36	0.41	− 0.40	0.14	6.0	4	17	6	5	nw.	William Ball.
Des Moines	Polk	861	32	20.2	− 3.9	49	14	− 9	23	33	0.20	− 0.88	0.11	1.8	3	7	8	13	nw.	U. S. Weather Bureau.
De Soto§	Dallas	866	10	20.6	+ 0.2	51	14	−12	23	31	0.40	− 0.48	0.20	4.0	2	15	8	5	nw.	R. D. Minard.
Dubuque	Dubuque	639	37	18.0	− 3.6	45	15	−11	23	31	0.50	− 0.88	0.20	4.6	6	8	13	7	nw.	U. S. Weather Buerau.
Earlham	Madison	.....	8	20.2	.....	48	14	−10	23	35	0.40	.....	0.30	4.0	2	13	5	10	nw.	George Phillips.
Elkader	Clayton	727	31	13.3	− 4.7	42	1†	−15	18	43	0.52	− 0.57	0.30	10.0	5	17	8	3	n.	Chas. Reinecke.
Elma	Howard	.....	1	11.0[b]	.....	37[c]	1	−20	17†	35	0.55	.....	0.30	.....	3	14	10	4	nw.	H. A. Moore.
Estherville	Emmet	1,298	15	12.1	− 3.0	40	1	−15	23	35	0.24	− 0.44	0.07	1.5	5	18	0	10	n.	A. O. Peterson.

TABLE 1—*Climatological data for February, 1910. District No. 5*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Sky. Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Iowa—Cont'd.																				
Fairfield	Jefferson	.....	26	22.9	− 1.2	55	14†	−10	24	34	0.66	− 0.93	0.39	2.8	4	18	5	5	nw.	R. Monroe McKenzie.
Fayette§	Fayette	1,003	20	12.9	− 4.0	38	1†	−17	10	46	0.99	− 0.15	0.45	11.3	5	15	2	11	nw.	R. Z. Latimer.
Forest City§	Winnebago	1,226	16	11.2	− 3.4	40	1	−17	10	34	0.30	− 0.63	0.20	3.0	2	15	5	8	nw.	J. A. Peters.
Fort Dodge	Webster	1,126	10	13.9	− 1.4	44	1†	−12	23	40	0.20	− 0.51	0.20	2.0	1	19	1	8	nw.	J. F. Monk.
Fort Madison	Lee	516	61	.....	.....	.....	.....	.....	.....	.....	1.14	− 0.75	0.80	2.0	3	8	9	11	sw.	Miss L. A. McCready.
Gilman	Marshall	1,052	11	.....	.....	.....	.....	.....	.....	.....	0.10	− 0.90	0.05	0.5	2	.....	.....	.....	.....	J. L. Wylie.
Grand Meadow	Clayton	1,180	19	13.2	− 3.5	40	1	−17	23	35	0.99	− 0.11	0.45	9.2	5	7	14	7	nw.	F. L. Williams.
Greene	Butler	.....	12	13.9	− 2.1	38	1†	−16	10	33	0.47	− 0.47	0.25	6.0	4	8	9	11	w.	J. L. Cole.
Grinnell	Poweshiek	1,023	18	21.8	+ 0.5	47	14	− 4	23	30	0.15	− 0.77	0.10	1.5	2	10	13	5	n.	D. W. Brainard
Grundy Center§	Grundy	976	19	15.6	− 2.1	40	1†	−12	23	31	0.30	− 0.55	0.15	3.0	3	9	9	10	nw.	J. B. Calderwood.
Guthrie Center§	Guthrie	1,077	15	19.7	− 0.5	44	1	−13	23	28	0.42	− 0.38	0.20	7.5	3	17	4	7	nw.	D. G. Beardsley.
Hampton	Franklin	1,155	20	14.8	− 2.1	42	1	−13	17†	33	0.56	− 0.61	0.30	7.2	5	10	12	6	nw.	E. C. Grenelle.
Humboldt	Humboldt	1,095	22	15.2	− 2.5	41	1	−14	17†	36	0.30	− 0.36	0.30	3.0	1	18	5	5	nw.	Henry S. Wells.
Independence§	Buchanan	921	46	14.6	− 5.0	39	15	−13	23	32	0.12	− 0.89	0.10	1.2	2	17	2	9	nw.	George Donohoe.
Indianola	Warren	969	19	21.6	− 0.7	49	14	−10	23	31	0.65	− 0.29	0.38	6.0	3	8	0	20	nw.	John L. Tilton.
Iowa City	Johnson	683	50	17.4	− 5.1	47	15	− 9	23	43	0.39	− 1.08	0.25	3.0	3	18	1	9	nw.	A. G. Smith.
Iowa Falls	Hardin	1,170	17	11.4	− 4.1	40	1	−15	10†	38	0.70	− 0.34	0.35	6.5	4	16	2	10	nw.	J. B. Parmelee.
Jefferson§	Greene	.....	11	18.6	.....	46	1	−10	23	37	0.40	− 0.45	0.20	4.0	2	14	11	3	n.	G. W. Jackson.
Keokuk	Lee	547	39	26.1	− 0.5	58	15	− 6	23	29	0.99	− 0.63	0.58	1.3	4	14	8	6	nw.	U. S. Weather Bureau.
Keosauqua	Van Buren	644	18	23.4	− 0.7	56	15	−10	23†	45	0.57	− 0.88	0.22	4.5	4	10	10	8	.....	J. H. Landes.
Knoxville§	Marion	920	15	22.8	+ 0.9	53	14	− 9	23	32	0.65	− 0.23	0.30	6.5	3	12	9	7	nw.	Casey & Belville.
Lacona	Warren	.....	11	.....	.....	.....	.....	.....	.....	.....	0.70	− 0.78	0.20	7.0	5	8	14	6	.....	J. B. Alter.
Le Claire	Scott	576	10	.....	.....	.....	.....	.....	.....	.....	0.78	− 0.47	0.35	3.8	6	.....	.....	.....	.....	Miss M. T. Disney.
Marshalltown	Marshall	947	18	16.8	− 2.6	47	7	−10	23	47	0.33	− 0.48	0.13	2.5	4	12	8	8	nw.	Ralph B. Reasoner.
Mason City§	Cerro Gordo	1,132	13	11.9	− 4.3	39	1	−15	10†	32	0.23	− 0.61	0.15	2.3	3	12	11	5	nw.	J. S. Mills.
Mount Pleasant§	Henry	729	29	23.2	0.0	54	15	− 9	23	32	1.17	+ 0.11	0.77	5.6	4	18	4	6	nw.	J. W. Edwards.
Muscatine	Muscatine	.....	50	.....	.....	.....	.....	.....	.....	.....	0.74	− 1.39	0.35	5.2	5	.....	.....	.....	.....	William Molis
New Hampton§	Chickasaw	1,169	13	11.9	− 2.7	35	14	−17	10	34	0.75	− 0.15	0.30	7.5	3	16	4	8	nw.	A. F. Kemman.
Newton§	Jasper	944	22	19.8	0.0	43	1	−10	23	31	0.30	− 0.79	0.21	5.0	2	15	10	3	s.	J. P. Beatty.
Northwood§	Worth	1,222	14	11.2	− 4.3	36	1	−16	23	30	0.49	− 0.60	0.30	4.8	4	19	2	7	nw.	Chas. H. Dwelle.
Olin§	Jones	760	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. M. Miles.
Osage	Mitchell	1,184	23	13.0	− 1.9	38	1†	−17	23	34	0.35	− 0.79	0.15	5.0	3	11	12	5	nw.	A. D. Bundy.
Oskaloosa§	Mahaska	843	34	22.2	+ 1.0	52	14	− 9	23	35	0.56	− 0.45	0.37	6.8	3	13	1	14	nw.	Joseph Boyd.
Ottumwa	Wapello	649	15	24.8	+ 1.8	56	14	− 7	23	36	0.26	− 1.10	0.13	4.2	3	10	8	10	w.	W. J. Mesmer.
Pella	Marion	877	8	21.3	.....	52	14	−10	24	32	0.49	.....	0.20	4.5	3	23	0	5	nw.	John H. Ver Steeg.
Perry§	Dallas	975	9	18.2	.....	44	1	−10	23	28	0.90	.....	0.40	9.0	3	11	10	7	n.	J. A. Harvey.
Plover	Pocahontas	1,426	14	13.4	− 2.9	40	1	−16	17	31	0.10	− 0.56	0.05	1.0	2	14	12	2	nw.	J. S. Smith.
Pocahontas§	...do	1,248	6	13.9	.....	42	1	−15	23	30	0.17	.....	0.09	1.7	2	17	7	4	nw.	F. E. Hronek.
Ridgeway§	Winneshiek	1,215	12	14.8	− 2.7	41	1	−17	23	34	0.61	− 1.56	0.44	4.1	5	17	9	2	s.	Arthur Betts.
Rockwell City§	Calhoun	.....	14	17.6	0.0	45	1†	−12	23	37	1.10	+ 0.25	0.50	11.0	3	22	5	1	.....	C. M. Randall.
Sac City	Sac	1,378	34	15.8	− 2.0	40	28	−13	23	26	0.30	− 0.72	0.20	3.0	2	18	1	9	nw.	E. N. Baily.
St. Charles§	Madison	1,070	9	22.8	.....	55	14	−11	23	38	0.33	.....	0.33	3.0	1	16	8	4	nw.	R. D. Minard.
Sigourney§	Keokuk	877	14	22.3	+ 0.5	49	14†	− 8	23	35	0.50	− 0.81	0.20	5.5	4	4	20	4	nw.	J. T. Parker.
Stockport§	Van Buren	.....	8	22.2	.....	55	15	−14	24	35	0.60	.....	0.24	3.0	4	13	5	10	n.	C. L. Beswick.
Storm Lake	Buena Vista	1,440	21	15.7[a]	+ 0.5	39[a]	1†	−15[a]	23	34[a]	0.11	− 0.58	0.06	0.5	2	17	10	1	s.	S. B. Fracker.
Stuart	Guthrie	1,216	11	18.6	− 2.5	44	28	−12	22	36	0.26	− 0.55	0.25	2.6	2	8	16	4	nw.	J. P. Fox.
Tipton§	Cedar	807	11	20.8	− 1.0	45	15	− 7	23	29	0.39	− 0.88	0.15	2.5	3	15	9	4	nw.	F. K. Gregg.
Toledo§	Tama	856	16	18.2	− 1.2	42	1†	−11	23	30	0.45	− 0.32	0.25	4.5	3	14	10	4	nw.	I. F. Giger.
Wapello§	Louisa	588	12	22.9	+ 2.6	51	15	− 7	23	33	0.59	− 0.80	0.31	3.5	3	15	7	6	nw.	G. W. Schofield.
Washington	Washington	769	28	21.6	− 0.7	52	14	− 9	23	33	0.46	− 0.76	0.20	.....	4	11	15	2	nw.	Wm. A. Cook.
Waterloo	Black Hawk	862	27	14.0	− 4.1	40	1	−12	23	37	0.50	− 0.61	0.26	.....	5	13	10	5	nw.	M. L. Newton.
Waukee	Dallas	1,039	7	18.6	.....	46	14	−10	23	31	0.34	− 0.96	0.20	3.2	3	8	17	3	nw.	Samuel F. Foft.
Waverly§	Bremer	948	14	14.3	− 3.2	40	1	−12	10†	32	0.78	− 0.36	0.40	7.8	4	9	11	8	nw.	H. S. Hoover.
Webster City§	Hamilton	.....	5	16.6	.....	40	1	−12	17†	36	0.50	.....	0.20	5.0	3	12	6	10	nw.	C. D. Carpenter.
West Bend§	Palo Alto	1,197	17	13.8	− 2.6	43	1	−15	17	35	0.10	− 0.85	0.05	1.0	2	12	10	6	nw.	Joseph Dorweiler.
Whitten§	Hardin	1,036	13	15.8	− 0.5	40	1	−14	23	37	0.60	− 0.16	0.20	6.0	4	14	7	7	nw.	F. P. Butler.
Winterset§	Madison	1,129	19	21.5	− 0.2	47	28	−10	23	28	0.40	− 0.47	0.20	4.0	2	12	8	8	nw.	Robert S. Cooper.
Zearing	Story	.....	6	16.8	.....	40	1	−11	22	34	0.90	.....	0.35	9.0	3	2	23	3	nw.	Orley Reese.
Missouri.																				
Gorin	Scotland	700	24	.....	.....	.....	.....	.....	.....	.....	0.69	− 0.57	0.38	2.5	3	11	4	13	nw.	J. W. Pulliam.
Hannibal	Marion	534	18	26.8	− 2.3	62	15	− 4	23	43	0.65	− 0.95	0.40	1.7	3	12	9	7	n.	U. S. Weather Bureau.
Louisiana	Pike	500	32	27.8	0.0	64	15	−14	18	33	1.92	− 0.57	0.70	6.4	7	18	2	8	n.	J. T. Farrell.
Mexico	Audrain	797	32	25.7	− 3.0	64	15	−10	18	46	0.93	− 1.57	0.25	5.0	10	13	3	12	s.	J. F. Llewellyn.
Steffenville	Lewis	576	17	28.1	+ 1.9	59	14	− 4	23	32	1.05	− 1.00	0.50	0.7	3	11	10	7	ne.	Lewis Spriggs.
Sublett	Adair	1,000	30	25.4	+ 1.3	57	14†	− 7	23	32	0.20	− 1.81	0.10	2.0	2	13	6	9	nw.	Frank Hall.
Warrenton	Warren	865	20	26.4	− 3.1	65	15	− 3	18†	39	2.42	− 0.13	0.69	16.0	10	7	8	13	s.	Dr. J. H. Frick.
Indiana.																				
Collegeville	Jasper	.....	11	26.3	+ 2.0	56	15	−12	18	42	2.45	− 0.04	1.05	3.3	8	2	9	17	sw.	Prof. L. C. Klosterman.
Knox§	Starke	716	5	25.7	.....	51	15†	− 4	23	31	1.61	.....	1.01	4.6	10	7	10	11	w.	W. R. R. Tatman.
Laporte	Laporte	810	14	22.2[d]	− 0.4	47[d]	15	− 7[d]	18	37[d]	.....	.....	.....	.....	.....	5[e]	1[e]	19[e]	w.	J. E. Hallinen.
Plymouth	Marshall	790	7	24.8	.....	47	15	− 6	23	31	1.64	.....	1.03	5.3	10	9	8	11	s.	J. W. Siders.
Illinois.																				
Aledo	Mercer	738	10	22.1	− 0.5	53	15	−12	23	32	0.98	− 0.48	0.53	5.0	4	10	10	8	nw.	Wm. B. Frew.
Alexander	Morgan	670	17	28.0	+ 0.4	63	15	−12	18	32	0.84	− 1.12	0.55	3.5	8	9	9	10	nw.	George H. Hall.
Antioch	Lake	861	9	20.0	.....	50	15	−10	23	36	0.65	.....	0.30	4.5	4	8	8	12	w.	J. C. James, jr.
Astoria	Fulton	650	11	25.6	+ 0.9	61	15	− 7	23	33	1.16	− 1.41	0.50	1.0	4	8	14	6	nw.	Ed. V. Bohl.
Aurora	Kane	687	31	21.5	− 1.1	45	15	−11	23	33	0.82	− 1.45	0.59	2.0	4	9	7	12	sw.	W. Holden.
Bement	Piatt	700	3	27.8	.....	61	15	−12	18	41	1.55	.....	0.85	7.0	6	13	7	8	s.	Rev. C. S. Adams.
Benton	Franklin	598	8	34.0	.....	62	8†	− 2	18	39	3.12	.....	1.30	9.2	9	11	12	5	nw.	F. H. Stamper.
Bloomington	McLean	840	19	26.0	+ 0.3	60	15	− 7	23	37	1.03	− 1.19	0.77	0.7	6	10	7	11	s.	Prof. H. N. Pearce
Cairo	Alexander	359	33	34.4	− 3.2	61	15	5	18	29	3.29	− 0.04	1.58	3.9	12	9	6	13	n.	U. S. Weather Bureau.
Carbondale	Jackson	412	.....	33.2	.....	62	15	−11	18	39	3.47	.....	1.51	14.3	8	10	6	12	n.	State Normal University.
Carlinville	Macoupin	663	20	28.4	− 0.8	63	15	−18	18	39	2.20	− 0.52	0.55	12.5	8	19	3	6	se.	R. O. Purviance.
Chester	Randolph	380	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. A. Gollon, jr.
Clinton	Dewitt	727	.....	27.8[a]	.....	60[a]	15	− 8	18	29[a]	1.24	.....	0.48	3.5	6	8	14	6	s.	J. F. Ziegler.
Coatsburg	Adams	763	18	27.0	+ 0.4	61	15	− 5	23	29	0.25	− 1.73	0.20	0.5	2	15	4	9	n.	Dr. J. R. Lambert.
Cobden	Union	656	27	33.8	− 1.9	63	15	− 4	18	41	.....	.....	.....	.....	.....	10	6	12	s.	John Buck.
Dakota	Stephenson	929	5	17.2	.....	40	15	−15	23	36	0.55	.....	0.26	5.0	6	12	11	5	w.	Rev. G. W. Kerstetter.
Decatur	Macon	685	19	24.2	− 2.0	61	15	−13	18	43	1.72	− 0.47	0.75	9.5	6	12	7	9	s.	Prof. J. H. Coonradt.
Dixon	Lee	725	20	19.5	− 1.5	46	15	−11	24	44	0.65	− 0.94	0.32	2.5	3	.....	.....	.....	.....	H. V. Bardwell.
Du Quoin	Perry	459	22	32.2	+ 1.0	67	15	−10	18†	35	4.16	+ 1.29	1.50	16.8	8	14	8	6	sw.	G. H. Knetzger.
Dwight	Livingston	600	17	25.2	− 0.3	59	15	−10	23	31	1.05	− 1.09	0.65	2.4	9	8	9	11	n.	Ed. O. Welch.
Galva	Henry	842	18	19.8	− 1.6	54	15	−13	23	41	1.26	− 0.35	0.72	6.5	5	16	2	10	nw.	Prof. F. U. White.
Greenville	Bond	635	32	28.4	− 2.1	63	15	− 7	18	30	2.65	− 0.54	1.10	20.5	8	9	4	15	se.	M. S. Oudyn.
Griggsville	Pike	650	25	29.0	+ 0.6	68	15	− 3	23	35	0.76	− 1.53	0.40	2.0	3	16	7	5	ne.	Geo. F. Kneeland.
Halfway	Williamson	569	14	32.2	+ 0.9	59	15	− 5	18	35	2.39	− 0.39	1.20	9.0	7	14	1	13	n.	E. L. Hearn.
Havana	Mason	475	18	28.4	+ 0.7	60	15	− 4	23	30	1.15	− 0.89	0.58	0.8	5	7	17	4	s.	F. & C. Borgelt.

TABLE 1.—*Climatological data for February, 1910. District No. 5*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Sky. Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Illinois—Cont'd.																				
Henry	Marshall	500	22	24.3	+ 0.1	59	15	−12	23	37	1.11	− 0.61	0.63	4.0	8	14	7	7	sw.	Dr. F. A. Powell.
Hillsboro	Montgomery	675	16	29.4	+ 0.3	62	15	−12	18	35	2.76	+ 0.33	0.85	22.0	8	12	3	12	nw.	Ira L. Woodward.
Joliet	Will	541	19	23.4	+ 0.3	53	15	− 8	23	41	1.21	− 0.69	0.74	2.4	6	15	4	9	nw.	F. M. Muhlig.
Kishwaukee	Winnebago	730	22	18.1	− 2.9	44	15	−14	23	36	0.52	− 1.55	0.28	7.0	4	15	6	7	s.	Geo. Stevens.
La Grange	Cook	657	18	22.8	+ 0.4	48	15	− 9	23	31	0.83	− 1.10	0.58	2.1	6	9	12	7	sw.	Prof. F. E. Sanford.
La Harpe	Hancock	698	31	24.6	− 2.2	59	15	− 8	23	30	0.60	− 1.33	0.25	1.5	3	16	7	5	nw.	Jno. S. Campbell.
Lanark	Carroll	883	21	17.2	− 3.5	47	15	−16	24	40	0.40	− 0.89	0.22	3.1	5	18	5	5	nw.	M. N. Wertz.
La Salle	La Salle	536	33	22.0	− 3.0	57	15	−11	23	34	1.17	− 1.27	0.67	3.6	5	10	8	10	w.	U. S. Weather Bureau.
Lincoln	Logan	482	22	26.8	− 0.4	55	15	− 4	18†	29	1.08	− 1.01	0.68	1.8	4	14	7	7	nw.	Prof. C. S. Oglevee.
Martinton	Iroquois	633	23	24.8	+ 0.4	55	15	− 8	23	36	1.07	− 1.17	0.68	2.7	7	10	8	10	nw.	Jos. H. Peltier.
Mascoutah	St. Clair	425	20	31.4	+ 0.4	65	15	−16	18	43	3.68	+ 0.47	1.01	19.3	8	13	8	7	nw.	Geo. Henrich.
Minonk	Woodford	745	17	25.4	+ 1.3	60	15	−10	23	31	1.08	− 0.91	0.75	1.5	4	16	8	4	nw.	O. M. Davison.
Monmouth	Warren	784	18	23.8	+ 0.9	56	14	−10	23	34	1.51	− 0.08	0.80	6.0	5	12	9	7	nw.	Hugh R. Moffet.
Morrison	Whiteside	685	16	20.2	− 0.4	46	15	−12	23	35	0.76	− 0.96	0.43	4.7	5	16	5	7	w.	S. A. Maxwell.
Morrisonville	Christian	638	11	27.4	+ 0.1	61	15	−20	18	38	1.42	− 0.52	0.77	8.7	9	14	8	6	s.	J. D. Lowis.
Mount Vernon	Jefferson	511	16	28.2	− 3.2	62	15	−15	18	37	5.71	+ 2.68	3.00	19.0	8	12	4	12	n.	Theo. P. Stelle.
Oregon	Ogle	702	1	19.0	.....	46	15	−15	23	33	0.80	.....	0.30	4.0	3	9	2	17	s.	Samuel Ray.
Ottawa	La Salle	500	24	24.2	− 0.5	55	15	−11	23	35	0.98	− 1.10	0.50	2.0	6	6	3	19	nw.	Miss M. M. Harris.
Pana	Christian	692	24	27.2	− 2.3	60	15	− 9	18	33	2.33	− 0.64	0.75	10.0	6	19	1	8	nw.	C. W. Sibley.
Peoria	Peoria	609	33	23.8	− 2.1	60	15	− 9	23	38	1.10	− 1.59	0.66	2.1	5	11	9	8	s.	U. S. Weather Bureau.
Pontiac	Livingston	546	8	26.6	.....	60	15	− 8	23	28	0.97	.....	0.40	1.0	6	10	7	11	w.	Geo. Butterworth.
Riley	McHenry	956	51	18.4	− 2.6	40	15	−15	23	34	0.55	− 1.15	0.30	4.4	4	9	9	10	nw.	John West James.
Rockford	Winnebago	763	18	17.4	− 5.8	45	15	−12	23	41	0.80	− 1.41	0.23	4.1	6	14	3	11	.....	Hosmer C. Porter.
Rushville	Schuyler	670	19	26.8	+ 0.7	61	15	− 5	23	28	0.71	− 1.21	0.38	1.0	4	4	4	20	n.	H. F. Dyson.
St. Charles	Kane	700	15	21.0	− 0.7	45	15	−11	23	35	0.90	− 1.46	0.55	4.5	6	9	15	4	nw.	Dr. Wm. H. Bishop.
St. Peter	Fayette	500	8	29.0	.....	63	15	−19	18	43	3.65	.....	1.20	18.0	6	13	5	10	nw.	M. L. Lansford.
Springfield	Sangamon	644	33	26.2	− 2.9	63	15	− 5	18	37	0.94	− 1.83	0.51	5.4	8	10	8	10	s.	U. S. Weather Bureau.
Streator	La Salle	626	17	22.6	− 0.6	58	15	−10	23	39	1.03	− 0.67	0.33	1.5	6	16	3	9	nw.	Edw. F. Sweetser.
Sullivan	Moultrie	530	10	27.2	+ 0.5	63	15	−12	18	32	2.03	− 0.25	1.04	8.0	7	8	10	10	nw.	C. A. Corbin.
Sycamore	De Kalb	855	30	18.4	− 2.7	50	15	−12	23	40	0.77	− 1.17	0.55	5.0	3	10	7	11	nw.	Miss E. J. Davis.
Tilden	Randolph	500	24	30.8	− 2.0	63	15	−12	18	43	3.27	+ 0.57	0.78	19.5	10	11	4	13	nw.	Jas. A. Caldwell.
Tiskilwa	Bureau	798	16	21.6	− 0.2	51	14†	−15	23	30	1.17	− 0.84	0.47	6.0	6	14	5	9	s.	F. L. Smucker.
Walnut	...do	717	19	22.2	− 0.5	49	15	−11	23	30	1.07	− 0.78	0.55	5.9	5	15	7	6	nw.	O. C. Nussle.
White Hall	Greene	573	2	27.7	.....	65	15	−14	18	38	1.70	.....	0.67	5.4	10	17	4	7	w.	Dr. R. A. Pritchett.
Windsor	Shelby	681	11	27.6	− 0.5	60	15	−24	18	42	2.84	+ 0.52	1.18	14.7	8	9	8	11	s.	Herbert Rose.
Winnebago	Winnebago	900	23	18.4	− 1.9	45	15	−13	23	35	0.69	− 1.08	0.40	6.0	4	18	4	6	nw.	Frank Osborn
Yorkville	Kendall	584	23	20.3	− 1.5	48	15	−14	23	33	0.46	− 1.52	0.20	1.5	6	13	4	11	w.	Herman A. Grimwood.
Zion	Carroll	938	16	17.4	− 2.6	46	15	−13	23	39	0.80	− 0.57	0.30	7.0	4	17	5	6	w.	Robt. F. Gillogly.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 5, Upper Mississippi Valley.*

Stations.	River basins.	Day of month																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
North Dakota.																																	
Amenia	Red											T.				.40					T.		T.			T.							0.40
Bottineau	Mouse	T.							.01	.03						T.							T.				.04	.05					0.13
Cando	Sheyenne														.10								T.	.26									0.36
Crosby	Mouse	.22	T.					T.		T.	.07	T.			T.	.10				T.	T.	T.			.25		T.	T.	T.				0.64
Devils Lake	Sheyenne	.02							.06	.01	.01					.10	T.			T.		.04			.03	T.	T.						0.27
Donnybrook	Mouse	.10							T.	T.	T.				T.	.10					T.				.05	.05							0.30
Dunseith	...do																																
Edmore	Sheyenne	T.							T.		.05					T.						T.			.20			.20					0.45
Forman	...do								T.						.10	.50					.10	T.	.20	T.			T.						0.90
Grafton	Red																																0.00
Granville	Mouse										.08						.04									.06							0.18
Hannah	Pembina								T.		.10											T.				.20							0.30
Hansboro	Red	.13						T.	.03														T.		T.	.03	.02						0.21
Hillsboro	...do					.01			.03		.05					.10						.02				.05	.01						0.27
Lakota	Sheyenne	T.							.25	T.	.05					.20						.10		.05	.05		.20						0.90
Langdon	Pembina	.01					T.				.04			.06																			0.11
Larimore	Red								T.	T.	T.					.20							.10		.20	.10		T.					0.60
Lisbon	Sheyenne									T.						.50	.30								T.	T.							0.80
McKinney	Mouse								T.																*	.20			T.				0.20
Manfred	Sheyenne								T.		.05					.20			T.			.10			.10	T.							0.45
Mayville	Red								.10							.40						.02			.20								0.72
Minot	Mouse	.03	T.							T.	T.	T.				.35	.05					T.	T.			.10	T.						0.53
Minto	Red	.04							.02							.03							.03		.06	.15							0.33
Oriska	Sheyenne										.02					.40						T.				.20							0.44
Park River	Red	T.							T.	T.	.04											T.			.04	.05	T.						0.13
Pembina	...do								.10																	.20							0.30
Portal	Mouse																																
Power	Sheyenne					.05										.50				.10						T.	T.						0.65
Pratt	Mouse																																0.00
University	Red								.01		.02					.10																	0.13
Wahpeton	...do											T.				1.50																	1.50
Walhalla	Pembina																									T.		T.					T.
Westhope	Mouse	T.						T.	T.		T.											T.			.02	T.			T.				0.02
Willow City	...do										T.														T.								T.
Minnesota.																																	
Albert Lea	Mississippi									T.		T.				T.					.07		T.			T.							0.07
Alexandria‖	...do		.03	T.						T.		.04				.60	.10				.08		.05					T.					0.90
Angus	Red									T.	T.	T.				.02							T.			T.	.10						0.12
Bagley	...do															.29										.11	.08						0.48
Baudette	Rainy	.15							.02	T.		.01	T.			T.							T.			.10	.07						0.35
Beardsley	Minnesota									T.					T.	.65					T.	T.	T.										0.65
Beaulieu	Red								T.		T.	T.				T.				T.			.15			T.							0.15
Bird Island	Minnesota									T.						.26					.12		.05		.02		T.						0.45
Caledonia‖	Mississippi															T.					.10				T.								0.10
Campbell‖	Red		.10							.20		.10				.60	.40						T.		T.	.05							1.45
Cass Lake‖	Mississippi											.15				T.	.25						.20			.10	T.						0.70
Collegeville	...do									T.						.17					.16		.01										0.34
Crookston‖	Red						T.		T.	T.		.10				.05	.05						.05			.10	.10						0.45
Detroit‖	...do																																
Fairmont (near)	Minnesota		T.							T.						.05			T.		T.	T.	.08			T.	T.						0.13
Faribault	Mississippi		T.							T.		T.				.02					.01		.02		.01								0.06
Farmington	...do		T.						T.	T.		.05				.10					T.		T.										0.15
Fergus Falls	Red		.01						.02	.01	.03	.02				.64	.01			.02	.03	.01	.02				.03						0.85
Fort Ripley‖	Mississippi		T.	T.								.05				.30	1.00				.05		T.			T.							1.40
Fosston	Red								T.		.07					.07						T.	T.				.08						0.22
Glencoe	Mississippi									T.		T.				.20					.05		.02		T.	T.	T.						0.27
Grand Meadow	...do									T.						T.					.05		.12		T.								0.17
Hallock	Red	.10									.10												.02			.10	.05		T.				0.37
Halstad	...do											.08				.15											T.						0.23
Hinckley	St. Croix												.10			.50							T.										0.60
International Falls	Rainy	.10							T.	T.		T.				.10							T.			.20	.20						0.60
Kelliher	Red																																
Lake Crystal	Minnesota									.03						T.							.11			T.							0.14
Leech Lake Dam	Mississippi											.08				.30					T.		.07			.11							0.56
Little Falls	...do	T.										T.				.70					.10		.05										0.85
Little Fork	Rainy																																
Long Prairie	Mississippi		T.							T.	T.	.01				1.02					.01		T.				T.						1.04
Lynd (2)	Minnesota									T.						.08				.07			.09				T.						0.24
Mankato‖	...do															T.	.06				T.		T.		T.								0.06
Mapleplain	Mississippi		T.						T.	.05		.02			.10	.40				.01	.10		.04		.02								0.74
Milaca	...do	T.										T.				.20				.16													0.36
Milan	Minnesota		T.						T.	.15	T.				.10	.50				.20	.10	.05			.02		T.						1.12
Minneapolis	Mississippi		T.							T.	T.	.01			.15	.31			T.	.01	.01		.02		T.				T.				0.51
Montevideo‖	Minnesota									.03						.12	.06				.09		.05		.02								0.37
Moorhead	Red								.02		.06	.02				.34				.02		.04			.02		T.						0.52
Mora	St. Croix										T.	.03				.80					.10		T.			T.							0.93
Morris	Minnesota									T.	.05				.10					.10					.05								0.30
New London	Mississippi									.05					.11	.62				.02	.24					T.	T.						1.04
New Richland	Minnesota		T.							T.		T.				T.					.02		.08		.02								0.12
New Ulm‖	...do									.03	T.	T.				T.	.05			T.	T.		.05	T.	.08	T.							0.21
Osakis	Mississippi		T.							T.		.02				.53				T.	.10		.05			T.	T.	T.					0.70
Park Rapids‖	...do											.10				.10	.16				.04		.04			.03							0.47
Pine River Dam	...do															.40					T.					.10							0.50
Pokegama Falls	...do								T.	T.		.08				.32	T.				.03			T.		.18	T.						0.61
Red Lake	Red											.08				.20										.06	.10						0.44
Red Wing‖	Mississippi										T.	.02	T.			.04	.02				.02	.02	T.	.02	T.	T.							0.14
Redwood Falls	Minnesota									.05						.20					.05		.10		.25								0.65
Reeds Landing‖	Mississippi														T.		.01					.04		.04									0.09
Rochester‖	...do											T.									T.	.05	T.		T.		T.						0.05
Roseau	Red	.13							T.			.15										T.				.12							0.40
St. Charles‖	Mississippi											T.					T.				.05	.11	T.	.03	T.		.06						0.25
St. Cloud	...do		T.													.28					.18												0.46
St. Paul	...do		T.							T.	.02				.10	.26				T.	.02	T.	.02		T.								0.42
St. Peter	Minnesota															T.	T.				T.		T.										T.
Sandy Lake Dam	Mississippi		.06								.03	.15				.96					.12		.03			.11							1.46
State Sanatorium	...do											.06				.52					T.		.08			.08	T.						0.74
Stillwater‖	St. Croix											.05				.21	.08				.07			.06									0.47
Taylors Falls	...do											T.				.41					.20												0.61
Warroad	Rainy	.10							.05														.05		.08	.10							0.38
West Concord	Mississippi															T.							T.										T.
Willow River	St. Croix		.02							.01		.05				T.	.21				.01	.05				.16							0.51
Windom	Des Moines									T.						T.				T.			.15				T.						0.15
Winnebago‖	Minnesota										.03					T.	T.				.04		.08		T.								0.11
Winnibigoshish	Mississippi											.08				.25					.02		.03			.19	T.						0.57

TABLE 2.—*Daily precipitation for February, 1910. District No. 5*—Continued.

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Minnesota—Cont'd.																																	
Winona	Mississippi		T.	T.								T.				.02	T.				.06		.02		T.		.04						0.14
Worthington‖	Des Moines																T.											T.					T.
Zumbrota	Mississippi		T.							T.						T.					T.				T.								T.
South Dakota.																																	
Milbank	Minnesota		T.							T.						.48	.11								.06								0.65
Wisconsin.																																	
Antigo	Wisconsin									T.	T.	.10				.30					.20		.05				.25						0.90
Barron	Chippewa											T.		T.		.45					.10	T.	T.										0.55
Beloit	Rock									.01										T.	.32		.20										0.53
Brodhead	...do									T.		T.				T.			T.		.45		.10				.30						0.85
Burnett	...do		T.	T.								T.	T.			.03				.05	.32		.05				*	.16					0.61
Delavan	...do		T.									T.	T.	.01		.01				.01	.13		.05				.20						0.41
Dodgeville	...do															.05				.06	.38		.28			.32	.04						1.13
Downing	Chippewa															.40							T.										0.40
Eau Claire	...do		T.						T.			T.			T.	.24					.06		.02		T.								0.32
Ellsworth	Mississippi																																...
Glidden	Chippewa																																...
Grand Rapids‖	Wisconsin		T.								T.	T.					.10			T.		.15		T.			.70						0.95
Grantsburg	St. Croix															.80					.30												1.10
Hancock	Wisconsin		T.									T.				.10					.20	T.	.20				.40						0.90
Hatfield	Black														.01	.02					.12						.30						0.45
Hayward	St. Croix		T.									.10				.35	.25				.10					.10							0.90
Hillsboro	Wisconsin		T.									T.				T.					.40		.10		T.		.60						1.10
Koepenick	...do		T.			T.				.10		.10				.50										T.	.30						1.00
LaCrosse	Mississippi		.01						T.	T.		T.		T.	T.	.08			T.		.13		.04		.01	.12	.12						0.51
Lake Mills	Rock			T.					T.			T.	.04			.08		.02	T.	.40	.05	.12		T.		.20							0.91
Lancaster	Mississippi																		.02		.23		.01			.03	.23						0.52
Long Lake	Wisconsin		.03						T.	.10	.04	.05	.05			.59	.01				.13		.03			.08	.04						1.13
Madison	Rock		T.			T.			T.	T.	T.	T.	T.	T.		.09	T.		.05	.06	.26		T.		T.	.09	.19						0.74
Mather‖	Wisconsin											T.			T.	.02	.30					.20		.10			.40						1.02
Mauston	...do																.10				.10						.30						0.50
Meadow Valley	...do	T.										T.				.05					.15		T.				.30						0.50
Medford	Black											T.			*	.20					T.												0.20
Merrill	Wisconsin									.01	T.	.01				.15					.04		T.			.02	.20						0.43
Minocqua	...do		T.							T.		T.	T.			.55					.10		T.			T.							0.65
Mondovi	Mississippi		T.									.05				.05					.05		T.										0.15
Mount Horeb	Rock			T.												.08				.10	.30		.10			.25	.18						1.01
Muscoda‖	Wisconsin			T.												.20	.10					.46	.14	.10			.22	.12					1.34
Neillsville	Black											T.			T.	.10					T.				*	*	.40						0.50
New Richmond	St. Croix															.73										T.							0.73
Osceola	...do										T.				T.	.30					.15		.15						.03				0.63
Portage	Wisconsin															.10				T.	.34		.05			.17	T.						0.66
Prairie du Chien‖	Mississippi										T.					T.	.02			.04		.22	T.	.04			.45	.04					0.81
Prentice	Chippewa									.03		T.				.46					.18		T.			.10							0.77
Rhinelander	Wisconsin		.02							.09		.04				.26	.02				.08		.03			T.							0.54
Sauk City	...do															T.				.05	.50					*	.25						0.80
Shullsburg	Mississippi									T.						T.			T.	.05	.15		.10			*	.26						0.56
Solon Springs	St. Croix		T.						T.	T.		.07			T.	.70					T.		.02			T.							0.79
Spooner	...do										T.	.05				.50					.10		.05			.05							0.75
Stanley	Chippewa								T.			.05			.05	.06					.03		T.										0.19
Stevens Point	Wisconsin												*	.08		.25					.21		.07				.50						1.11
Valley Junction	...do		T.	T.					T.							.15	T.				.13		.05		.02		.20						0.55
Viroqua	Mississippi											T.		T.		.02	T.				.18	T.	.03		T.		.45						0.68
Vudesare	Wisconsin		.03			T.			T.	.20		T.	.20			.74	.40				.20		.03			.10							1.90
Watertown‖	Rock												T.	T.			.06	T.		.07	.05	.50		.05			.10	.06					0.89
Waukesha	Fox		.01									T.	T.			.04				.05	.25		.10				.30						0.75
Wausau	Wisconsin									T.	T.	.03				.20					.07		T.				.20						0.50
Weyerhaeuser	Chippewa								T.	T.	T.	.03				.70					.05	T.											0.78
Whitehall	Mississippi									T.		.08		*	.05						.05						.05						0.23
Iowa.																																	
Albia‖	Des Moines																				.20	.05						.23					0.48
Algona	...do																	T.			.13		.02				.02						0.17
Alta‖	Raccoon																T.		T.		.08	.05	.06				T.						0.19
Amana	Iowa								.01	T.		T.							T.		.09		.03				.12						0.25
Ames	Skunk																				.20		.15			T.	T.						0.35
Baxter	...do									T.		T.								.01	.05		.10				.03						0.19
Belle Plaine	Iowa								T.	T.									T.		.20		.25				.35						0.80
Belmond	...do								T.			T.				.18			T.				.04										0.22
Bloomfield	Mississippi																				.35		.05				.54						0.94
Bonaparte	Des Moines		.07																		.30		T.	T.			.37						0.74
Boone‖	...do																			.08		.10	.10	.08	T.	T.	.03						0.39
Britt	Iowa									T.						.02					.05		.03				T.						0.10
Buckingham	Cedar									T.						T.			.02		.13		.05				.07						0.27
Burlington‖	Mississippi			.40										T.			T.				.08	.47	.06	.03			.60	.45					2.09
Carroll‖	Raccoon																		.10		.10												0.20
Cedar Rapids‖	Cedar							T.		T.		T.				T.		T.	T.		.12	T.	.09				.17						0.38
Charles City	...do									.02		T.				.08			T.		.20		.04			.06	.21						0.61
Clear Lake	...do																				.10												0.10
Clinton	Mississippi									T.											.15		.10				.42						0.67
Columbus Junction	Iowa		T.							T.		T.									.26	T.	.05				.36						0.67
Davenport	Mississippi		.01							.01		T.									.24	.01	.02			T.	.30						0.59
Decorah	...do								T.	T.											.21		.05				.65						0.91
Delaware	...do										T.	T.							T.	.05	.12		.10				.14						0.41
Des Moines	Des Moines									T.		T.									.11	T.	.08	T.		.01	T.						0.20
De Soto	Raccoon																				.20		.20			T.							0.40
Dubuque	Mississippi									T.		T.		T.		T.			.04	.01	.16		.09			.02	.18						0.50
Earlham	Raccoon																				.10		.30	T.		T.	T.						0.40
Elkader	Mississippi									.02									.02		.30		.08			.10							0.52
Elma	Wapsipinicon									T.		T.				T.			T.		.15		.10				.30						0.55
Estherville‖	Des Moines																.02				.05		.05	.05			.07						0.24
Fairfield	Skunk		.03						T.												.21	T.	.03				.39						0.66
Fayette	Mississippi									T.						T.			T.	.05	.42		.07			*	.45						0.99
Forest City‖	Cedar									T.						T.	T.				.20	.10	T.										0.30
Fort Dodge‖	Des Moines																				T.		.20	T.									0.20
Fort Madison	Mississippi		.14									T.							T.			.20	T.				.80						1.14
Gilman	Iowa									T.										T.	.05				T.	.05		T.					0.10
Grand Meadow	Mississippi			T.						T.						.07				.02	.40		.05				.45						0.99
Greene	Cedar															.03			T.		.15		.04				.25						0.47
Grinnell	Iowa									T.											.05		.10			T.			T.				0.15
Grundy Center	Cedar															T.			T.		.15		.05			T.	.10						0.30
Guthrie Center	Raccoon															T.				.04	.18	T.	.20				T.						0.42
Hampton	Cedar									T.								T.	.02		.30	.04	.08			.12	T.						0.56
Humboldt	Des Moines															T.			T.		.30												0.30
Independence	Wapsipinicon																			.10							.02						0.12

TABLE 2.—*Daily precipitation for February, 1910. District No. 5*—Continued.

Stations.	River basins.	Day of month. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Iowa—Cont'd.																																	
Indianola	Des Moines											T.									.38	T.	.23	T.		T.	.04						0.65
Iowa City‖	Iowa								T.		T.											.25	T.	.02			T.	.12					0.39
Iowa Falls‖	...do									T.							T.		T.	.05	T.	.35	.10	T.			.20	T.					0.70
Jefferson	Raccoon																		T.		.20		.20			T.	T.						0.40
Keokuk	Mississippi		.16					T.		T.	T.	T.									.24	T.	.01	T.		T.	.58						0.99
Keosauqua‖	Des Moines						T.					T.				T.					.20	.10	.05				T.	.22					0.57
Knoxville	...do											T.									.30		.15				.20						0.65
Lacona	...do																				.20	.20	.10	.10			.10						0.70
Le Claire‖	Mississippi			.01							.01											.25	T.	.07			.09	.35					0.78
Marshalltown‖	Iowa																			.08	T.	.13	T.	.09			.03						0.33
Mason City	Cedar									T.											.15		.05				.03						0.23
Mount Pleasant	Skunk		T.	T.						T.						T.					.33	.02	.05				.77						1.17
Muscatine‖	Mississippi				T.						T.		T.								T.	.28		.03	.04		.04	.35					0.74
New Hampton	Wapsipinicon									.20						T.					.25						.30						0.75
Newton	Skunk																				.09		.21										0.30
Northwood	Cedar		T.							.05		T.				.04					.30		.10				T.						0.49
Olin	Wapsipinicon																																
Osage	Cedar									T.						T.					.15		.15				.05						0.35
Oskaloosa	Des Moines																				.13		.06			T.	.37						0.56
Ottumwa	...do		T.									T.									.13	T.	.03	T.			.10						0.26
Pella	...do							T.	T.			T.									.18		.11				.20						0.49
Perry	Raccoon																		T.	.20	.30		.40			T.	T.						0.90
Plover	Des Moines																T.	T.		T.	.05		.05		T.		T.						0.10
Pocahontas	...do																				.08		.09										0.17
Ridgeway	Mississippi									T.		T.				.01					.15		.01			.01	.43						0.61
Rockwell City	Raccoon																			.10	.50		.50										1.10
Sac City	...do																			.10	.20												0.30
St. Charles	Des Moines									T.		T.				T.					.33						T.						0.33
Sigourney	Skunk								T.												.18		.07				.20		.05				0.50
Stockport	...do		.11																		.24	.02					.23						0.60
Storm Lake	Raccoon																						.05	.06									0.11
Stuart‖	...do																			.01		.25				T.							0.26
Tipton	Cedar																				.14		.10				.15						0.39
Toledo	Iowa																			.05	.15		.25				T.						0.45
Wapello	...do		.04							T.											.24		T.				.31						0.59
Washington	Skunk																				.20	.02	.04				.20						0.46
Waterloo‖	Cedar									T.									T.	.09	.26		.03				.05		.07				0.50
Waukee	Raccoon											T.								T.	.09	T.	.20			.05	T.						0.34
Waverly	Cedar									T.						T.			T.	.03	.40		.05				.30						0.78
Webster City	Des Moines															T.				.10	.20		.20				T.						0.50
West Bend	Des Moines															T.					.05		.05				T.						0.10
Whitten	Iowa								T.	T.						T.				.20	.20		.10				.10						0.60
Winterset	Des Moines											T.				T.					.20	T.	.20	T.		T.							0.40
Zearing	Iowa																		.20	.35		.35											0.90
Missouri.																																	
Darksville	Chariton																																
Gorin	Mississippi		.13																		.18		T.				.38						0.69
Hannibal	...do		T.	T.					T.	T.	T.	T.	T.			T.	.09				.16	T.	T.			T.	.40						0.65
Lousiana	...do		.15	T.					.02	.10	T.	T.					T.	.70			.15		.02	T.			.42						1.56
Mexico‖	...do			.10	T.				.03	.04			.02				.03	.25			T.	.05	.03				.15	.23					0.93
Steffenville	...do		.50							T.	T.	T.					T.	T.				.05	T.				.50						1.05
Sublett	...do		T.																		.10		T.				.10						0.20
Warrenton‖	...do			.15					.01	.36			T.				.08	.63	.04			.02	.07				.38	.68					2.42
Indiana.																																	
Collegeville	Iroquois		.15	.30	T.								.01				.01	.38			.20		T.				1.05	.35					2.45
Knox	Kankakee		.01	.15			.03		T.	T.			.07				T.	.09			.05	.14	.07				.58	.42					1.61
Laporte	...do																																
Plymouth	...do		T.	.04		T.	.03		T.	.03		T.	.19				.04	.08			T.	.12	.08				.50	.53					1.64
Illinois.																																	
Aledo	Mississippi		.04									T.								T.	.36	T.	.05				.53						0.98
Alexander	Illinois		.09	.01					.01	.01	T.	T.	T.			T.	.15	T.			.02		T.				.43	.12					0.84
Antioch	...do											.30				T.					.10	.20	.05										0.65
Astoria	Illinois		.06						T.	T.	T.	T.	T.			T.	.20				.40	T.	T.	T.			.50						1.16
Aurora	...do		T.	T.								T.	.07								.09		.07				.59						0.82
Bement	Mississippi		T.							.10							.10	.40	.10								.55	.30					1.55
Benton	...do		.05	.10					.02	.20							.10	1.30				.05					.05	1.25					3.12
Bloomington	Illinois		.09						T.	T.	T.		T.				.07				.07	.03	T.				.69	.08					1.03
Cairo	Mississippi		.06	.20						.22		T.	.01			.01	.74	.33			.06	.02		.06			.97	.61	T.				3.29
Carbondale	Mississippi		.04	.11						.25			T.				.45	1.02					.09	T.			.25	1.26					3.47
Carlinville	Illinois					.50			T.	.15			.02			T.	.55	.30				.03					.50	.15					2.20
Carlyle	Mississippi								.40									1.20									.97	2.00					4.57
Chester	...do																																
Clinton	Illinois	T.	.17						T.	T.			T.				*	.31			.09	.07					.48	.12					1.24
Coatsburg	Mississippi		T.														T.				T.	.05					.20						0.25
Cobden	...do																																
Dakota	Mississippi									T.			T.	T.		.02					.26	.01	.10				.13	.03					0.55
Decatur‖	Illinois		.20						T.	.12			T.				.40	.17			.08						.75						1.72
Dixon‖	Mississippi																					.25		.08				.32					0.65
Du Quoin	...do			.31				.08		.50			T.	.20			.33	1.50									.84	.40					4.16
Dwight	Illinois		.04	.07					T.	T.	.01		.04				T.	.01			.21	T.	.02				.57	.08					1.05
Edwardsville	Mississippi		.14	.12					T.	.45							.85	.40			.03		.04				.86						2.89
Galva‖	Illinois		.16	T.						T.	T.	T.									.30	.08	.03				.72						1.26
Grafton‖	Mississippi			.32						.40			T.				.64	1.40									.62	.50					3.88
Greenville	...do			.05	.10					.50							1.10	.30			.05	.05					.50						2.65
Griggsville	Illinois		T.	T.							T.	T.			.20			T.	T.		.16	T.	T.				.40						0.76
Halfway	Mississippi		.08	T.						.16			T.				.20	.50				T.	.08				.17	1.20					2.39
Havana	Illinois		.08														.12				.30	.07					.58						1.15
Henry	...do		.05	.06						T.	.02	T.									.28	.04	.03				.60	.03					1.11
Hillsboro	Mississippi		.06	.08					T.	.32			.05				.72	.40			T.		T.				.85	.28					2.76
Joliet	Illinois		.24							T.	T.	.02	T.								.15	.02	.04				.74						1.21
Kishwaukee	Mississippi		.02							T.										T.	.12		.10				.28						0.52
La Grange	Illinois		.10										.03				T.				.07	.01	.04				.58						0.83
La Harpe	...do		.15									T.					T.				.20		T.	T.			.25						0.60
Lanark	Mississippi		T.							T.											.17	.05	.03				.12	.03					0.40
La Salle	Illinois		.16						T.	T.		.02					T.				.30	T.	.02				.67						1.17
Lincoln	...do		T.						T.	T.	T.		.02				.18				.20	T.	T.	T.			.68						1.08
Loami	...do		.05	T.						.05	T.	T.	T.				.25	T.			T.	T.	T.				.40	.10					0.85
Martinton‖	...do		.20							.02		.01	T.				.05				.08		.03				.68						1.07
Mascoutah	Mississippi		*	.33					.02	.42		T.				*	.66	.90	.14				.20				.54	.47					3.68
Minonk	Illinois		.11							.04		T.					T.				.18	T.	T.				.75						1.08
Monmouth	Mississippi		.20																		.39	.06	.06				.80						1.51
Morrison	...do										.03									T.	.20	.02	.08				.43	T.					0.76
Morrisonville	Illinois		T.	.08					T.	.10			.02				.27	.12			.02		.04				.55	.22					1.42
Mt. Vernon‖	Mississippi			.05						.50							.22	3.00	.50				.10					1.25	.09				5.71

TABLE 2.—*Daily precipitation for February, 1910. District No. 5*—Continued.

Stations.	River basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Illinois—Cont'd.																																	
Oregon	Mississippi											T.									.30		.20				.30						0.80
Ottawa	Illinois		.13	.08							.04		T.								.15	.08					.50						0.98
Pana	Mississippi		T.	.18					T.	.20			T.				.43	.52			T.	T.	T.				.75	.25					2.33
Peoria	Illinois		.12						T.	.01		T.	T.				.02				.29	T.	T.				.66						1.10
Pontiac	do		.15	.07					T.		T.		T.				T.	T.			.10	.10	T.				.40	.15					0.97
Riley	Mississippi		T.	T.						T.		T.				T.				.02	.30		.10				.13						0.55
Rockford‖	do			T.					T.	.06				T.		T.			.02		.22		.12			.15	.23						0.80
Rushville	Illinois		.08							T.			T.				.10				.15		T.				.38						0.71
St. Charles	do		.08	T.					T.	T.	T.	.01	T.			T.	T.				.07	.11	.08				.55	T.					0.90
St. Peter	Mississippi		T.	.20						.40			T.			T.	1.00	.20									1.20	.65					3.65
Springfield	Illinois		.04						.01	.03	T.	.01	T.			T.	.28	.03			.03	T.	T.	T.			.51	T.					0.94
Streator‖	Illinois		T.	.14					T.		.02		T.									.22		.04			.28	.33					1.03
Sullivan	Mississippi		T.	.12						.20		T.					.50	.10			.07						.80	.24					2.03
Sycamore‖	do			T.									T.									.55					.10	.12					0.77
Tilden	do		.14	.27					.05	.26			.02				.78	.50					.05	T.			.69	.51					3.27
Tiskilwa	Illinois		.10						T.	T.	.05	T.	T.								.40	.10	.05				.47	T.					1.17
Walnut	Mississippi		.06						T.			T.									.26	.05	.15				.55						1.07
Warsaw‖	do		.20																		.27						.50						0.97
White Hall	Illinois		.32	.01					T.	.12			T.				.36	.05			.10	.02	.05				.62	.05					1.70
Windsor	Mississippi			.20						.40			T.			T.	.60	.42			.02		.02				.70	.48					2.84
Winnebago	do		T.									T.									.40	T.	.05				.20	.04					0.69
Yorkville	Illinois		.01	.01							T.	T.									.09	T.	.05				.20	.10					0.46
Zion	Mississippi									T.		T.									.30		.20			.10		.20					0.80

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 5, Upper Mississippi Valley.*

Date.	North Dakota.										Minnesota.																	
	Bottineau.§§		Devils Lake.		Lisbon.§§		Minot.§§		Pembina.§§		Collegeville.		Crookston.§§		Grand Meadow.		Montevideo.§§		Moorhead.		New Ulm.§§		Pine River Dam.		St. Paul.		Winnibigoshish.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	25	15	30	13	29	7	29	23	24	18	39	23	34	16	38	7	45	22	34	21	43	26	30	16	46	20	34	20
2...	15	3	20	6	28	4	23	4	18	8	31	25	18	14	37	16	27	25	26	6	34	5	32	17	34	21	32	15
3...	22	−5	28	4	30	1	33	7	25	5	29	7	28	0	29	7	34	3	23	−3	31	−5	29	−7	25	7	34	3
4...	29	−2	29	7	34	4	33	11	22	14	28	15	18	10	30	10	34	4	24	13	27	4	24	11	30	13	24	9
5...	16	1	21	2	22	6	38	10	18	8	23	5	12	1	23	8	20	7	13	3	19	9	15	−8	20	7	13	−7
6...	27	2	34	6	21	4	40	11	28	5	26	6	24	1	19	−2	34	5	28	−2	24	0	26	−6	22	5	29	1
7...	26	−2	28	6	23	1	42	10	32	6	34	17	26	7	32	9	38	10	26	10	36	7	31	9	36	14	34	10
8...	20	−1	25	1	25	3	29	9	15	15	32	17	19	10	32	16	29	13	27	8	29	14	29	9	33	20	29	9
9...	4	−10	1	−18	3	−1	18	4	15	−20	24	0	−7	−13	27	12	10	9	8	−12	17	17	25	−4	21	−4	10	−9
10...	12	−19	17	−20	15	−27	22	−3	6	−18	10	−12	10	−19	14	−16	17	−15	14	−20	11	−16	11	−22	10	−11	15	−20
11...	8	−10	9	−13	10	−15	17	−3	−6	−20	13	−7	2	−10	11	0	10	−14	10	−9	18	−15	11	−5	14	5	18	−6
12...	19	−10	25	−7	30	−11	31	−2	8	−12	20	−5	25	−10	14	−9	23	−7	27	−10	23	−7	21	−19	18	−8	27	−18
13...	22	−6	28	7	29	−3	27	4	18	0	32	9	28	−5	24	−1	34	−6	28	4	29	4	30	4	28	4	30	5
14...	5	−2	9	−6	9	−7	6	3	0	−12	30	13	4	2	37	17	26	10	14	4	34	15	26	15	32	22	23	−6
15...	2	−10	0	−12	−1	−4	4	−7	−12	−15	31	6	−2	−3	35	14	18	16	5	−11	23	−5	22	−2	22	0	12	−2
16...	−10	−22	−3	−20	−2	−20	−1	−20	−5	−22	6	−15	2	−17	14	−10	−4	−15	1	−18	12	−12	3	−24	0	−14	1	−23
17...	−10	−28	−6	−23	−6	−32	0	−24	0	−23	5	−19	1	−17	7	−18	6	−16	0	−23	9	−15	1	−38	3	−16	3	−23
18...	−9	−26	−4	−28	−2	−34	−2	−26	−2	−25	4	−15	−2	−24	19	−9	7	−16	0	−29	12	−16	−3	−43	8	−14	0	−32
19...	−2	−27	3	−22	−1	−30	6	−27	8	−20	7	−16	0	−22	20	−13	−5	−17	2	−28	16	−18	−1	−42	12	−16	6	−25
20...	0	−26	4	−20	4	−28	5	−20	−6	−18	13	−1	3	−13	20	13	−9	−15	6	−12	5	−15	10	−18	16	0	13	−11
21...	−10	−25	−9	−18	0	−20	−10	−19	−12	−28	13	−10	−7	−16	15	−10	−10	−15	−6	−15	12	−15	−0	−18	10	−8	2	−18
22...	−10	−30	−10	−24	−2	−22	−6	−25	−14	−30	1	−14	−7	−20	11	−10	−6	−12	−7	−18	13	−13	−4	−16	4	−15	−5	−20
23...	−5	−33	−1	−25	−4	−20	0	−26	5	−24	3	−22	0	−24	6	−20	7	−19	−1	−24	16	−19	−2	−32	0	−20	1	−24
24...	5	−23	6	−18	10	−26	8	−23	12	−18	11	−7	12	−18	15	−10	17	−16	10	−17	18	−16	7	−38	13	−7	14	−32
25...	14	−18	19	6	6	−10	23	0	15	2	29	6	25	−10	29	0	36	0	32	8	23	6	22	3	32	7	20	3
26...	3	0	13	−6	12	−8	16	−4	10	0	31	15	11	10	34	14	24	16	23	0	32	11	28	7	34	9	21	6
27...	25	14	22	−11	28	−6	35	−10	16	−18	18	−1	20	−10	23	−3	21	−1	21	−3	29	−2	25	−13	19	2	22	−12
28...	35	0	38	15	39	10	.....	14	33	8	38	7	37	−6	35	7	39	7	38	15	38	2	40	4	37	13	39	6
29...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	9.9	−11.1	13.4	−7.8	13.9	−9.9	17.3[a]	−4.6	9.7	−8.2	20.8	1.0	11.9	−6.6	23.2	0.7	18.6	−1.3	15.2	−5.8	22.6	−2.5	17.4	−9.3	20.7	1.3	17.9	−7.2

Date.	Wisconsin.														Iowa.													
	Delavan.		Eau Claire.		La Crosse.		Madison.		Mauston.		Spooner.		Wausaw.		Algona.		Cedar Rapids.§§		Charles City.		Davenport.		Des Moines.		Dubuque.		Keokuk.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	35	15	43	15	42	19	36	15	40	23	38	19	36	14	40	20	40	3	37	15	44	21	48	24	40	19	49	23
2...	37	28	35	25	32	23	32	26	38	12	30	16	30	12	35	21	39	20	31	15	41	30	42	26	38	31	48	32
3...	34	19	32	9	32	16	32	17	33	14	29	−1	35	14	26	7	31	22	27	8	34	25	31	16	35	18	36	28
4...	32	14	33	11	34	14	32	17	30	16	29	11	33	14	34	12	35	19	30	10	34	24	36	21	35	18	42	25
5...	23	10	26	7	21	7	21	5	27	10	15	0	21	6	25	9	25	17	24	1	30	11	29	12	35	9	38	24
6...	17	−4	25	4	22	4	16	0	20	−6	22	5	19	−7	21	−3	21	0	18	−11	22	4	29	7	19	2	28	10
7...	32	−5	37	8	35	10	31	9	37	11	32	15	35	−7	35	13	36	1	34	6	37	16	40	17	35	12	41	19
8...	37	25	36	20	36	23	35	23	35	25	38	19	35	22	34	16	37	15	29	17	36	26	35	23	36	26	37	27
9...	28	15	30	11	24	6	23	8	27	12	30	8	29	11	26	9	29	17	22	−6	27	17	31	12	26	13	32	22
10...	18	2	16	−9	15	−6	18	4	20	−7	27	5	23	9	14	4	25	−3	8	−17	18	0	25	0	17	−4	30	12
11...	34	−2	19	6	24	8	23	7	20	0	16	7	22	6	15	4	25	−5	15	1	29	7	25	6	24	6	35	18
12...	21	3	18	−1	20	5	20	8	20	7	17	−8	25	5	16	−6	17	4	14	−8	16	2	20	0	18	4	25	6
13...	25	0	30	5	31	5	28	4	28	5	28	5	28	3	31	3	33	2	27	−4	34	10	37	9	27	2	40	13
14...	39	19	37	18	37	19	35	22	35	18	28	6	37	11	35	18	42	7	37	20	48	32	49	31	39	27	57	34
15...	42	28	32	14	32	14	36	15	32	22	21	11	35	13	33	9	48	27	33	8	52	20	41	8	45	19	58	29
16...	34	8	16	−9	14	−1	15	−2	25	0	11	−17	19	0	11	−10	8	6	8	−6	20	3	8	−1	19	1	29	10
17...	9	−6	7	−19	8	−10	7	−7	7	−12	0	−23	9	−16	11	−10	10	−3	5	−15	9	1	14	−1	8	−4	15	3
18...	19	−11	20	−20	16	−12	14	−8	12	−17	4	−24	18	−20	.....	.....	30	−4	14	−10	29	2	32	8	23	−4	29	7
19...	26	13	15	−22	22	−5	22	4	20	−12	8	−24	24	−23	19	−9	36	3	23	−2	35	18	36	12	29	13	38	18
20...	31	15	22	11	22	11	26	18	25	9	17	−1	21	9	23	5	28	14	23	2	34	21	30	9	27	17	32	28
21...	25	10	20	−13	18	−1	18	1	21	−10	11	−18	20	−6	15	−4	18	4	17	−9	21	10	20	0	19	8	30	15
22...	26	4	9	−7	12	−11	17	−11	15	−7	5	−12	18	3	12	−6	17	6	10	−13	20	−6	16	−8	17	−9	23	6
23...	5	−13	5	−20	3	−14	1	−14	4	−18	−1	−26	17	−20	4	−15	12	−9	1	−14	6	−8	7	−9	4	−11	7	−6
24...	14	−12	15	−15	13	−8	11	−10	12	−18	10	−17	14	−18	21	−6	16	−8	12	−11	14	−4	20	−1	16	−8	20	−1
25...	26	−11	28	3	32	3	29	−6	27	−9	24	5	21	3	36	9	37	−5	33	2	35	3	38	10	31	0	39	11
26...	37	25	36	23	40	17	38	27	35	25	34	6	37	20	35	21	39	7	33	10	39	24	38	20	40	21	42	34
27...	32	14	25	0	23	5	27	12	34	2	19	−2	35	6	24	0	23	10	21	5	29	12	29	10	27	10	34	17
28...	35	5	39	8	38	8	33	10	37	−4	36	9	35	2	36	13	39	8	34	7	38	20	45	19	39	11	41	24
29...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	27.6	7.8	25.2	2.2	24.9	5.3	24.1	6.9	25.6	4.0	20.6	−0.9	26.1	2.4	24.7[a]	4.6[a]	28.4	6.2	22.1	0.0	29.7	12.2	30.4	10.0	27.1	8.8	34.8	17.4

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 5*—Continued.

Date.	Hannibal, Mo.		Laporte, Ind.		Illinois. Cairo.		Greenville.		La Salle.		Monmouth.		Mt. Vernon.§§		Peoria.		Springfield.		Winnebago.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	51	20	.....	.....	49	26	42	25	40	18	44	18	49	20	43	20	43	21	39	12
2	50	32	40	3	51	40	56	33	43	32	42	32	58	23	45	31	52	33	39	30
3	37	26	38	21	44	32	43	29	34	25	36	28	36	32	35	27	37	28	30	20
4	43	24	33	16	48	27	42	24	36	24	40	24	47	22	39	23	41	25	31	15
5	40	19	32	15	50	30	42	24	27	11	34	22	40	20	35	15	39	21	25	11
6	30	13	28	9	34	22	29	15	19	5	26	7	32	16	25	8	25	13	17	−7
7	39	24	35	1	43	24	37	19	37	15	38	12	41	23	36	17	36	18	35	5
8	46	28	38	21	58	38	47	32	35	27	35	27	55	25	43	27	47	28	36	25
9	33	23	34	17	48	29	38	25	28	21	30	20	36	27	29	19	32	25	27	13
10	37	18	29	11	41	24	36	14	21	6	28	7	43	13	30	11	36	20	17	−2
11	42	14	.....	.....	37	30	38	25	39	10	31	18	36	14	42	9	42	14	31	2
12	27	8	.....	.....	32	17	31	12	18	8	23	6	27	9	23	8	24	10	18	4
13	42	15	.....	.....	40	18	36	15	33	11	40	12	34	16	37	12	38	15	25	−1
14	59	34	39	20	59	30	52	30	48	31	56	30	49	25	52	31	51	31	42	20
15	62	19	47	26	61	45	63	38	57	24	54	30	62	32	60	22	63	26	45	30
16	19	9	35	14	45	20	45	18	24	10	30	11	43	22	22	11	26	14	32	10
17	15	2	28	10	20	8	18	5	10	2	13	2	16	13	12	3	14	5	10	−4
18	25	−3	17	−7	25	5	20	−7	23	1	29	1	22	−15	22	0	19	−5	23	−9
19	37	14	29	3	35	12	32	2	34	14	38	12	35	0	33	10	29	7	30	15
20	40	25	39	12	45	28	37	19	33	24	33	25	40	6	34	25	37	22	31	21
21	25	19	33	16	42	30	37	26	26	18	31	9	35	31	27	18	33	23	25	12
22	28	2	33	12	42	27	30	17	22	−5	24	6	39	25	25	−4	29	6	22	3
23	11	−4	17	−5	29	12	17	−1	3	−11	7	−10	23	3	8	−9	10	−3	4	−13
24	25	3	24	−5	32	11	26	1	16	−6	20	−8	27	3	19	−5	22	2	12	−10
25	41	17	27	3	48	21	38	13	35	1	36	2	42	10	37	8	36	12	30	−5
26	43	31	40	21	56	45	42	35	40	31	38	32	45	18	39	30	41	35	37	29
27	32	21	38	22	50	33	38	29	31	19	33	14	39	30	31	20	33	25	33	10
28	44	27	34	21	44	33	37	23	37	21	39	18	39	26	39	23	40	25	35	9
29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means	36.5	17.1	32.8[d]	11.5[d]	43.1	25.6	37.5	19.3	30.3	13.8	33.1	14.5	38.9	17.5	32.9	14.6	34.8	17.7	27.9	8.8